

UNCLASSIFIED

AD NUMBER
AD481681
NEW LIMITATION CHANGE
TO Approved for public release, distribution unlimited
FROM Distribution authorized to U.S. Gov't. agencies and their contractors; Administrative/Operational Use; Mar 1966. Other requests shall be referred to Central Intelligence Agency, Office of Central Reference, 2430 E. Street, NW, Washington, DC 20505.
AUTHORITY
CIA ltr, 7 Sep 2004

THIS PAGE IS UNCLASSIFIED

481681

FOR OFFICIAL USE ONLY



CONSOLIDATED TRANSLATION SURVEY

Number 99

For March 1966

OFFICE OF CENTRAL REFERENCE
Foreign Documents Division
CENTRAL INTELLIGENCE AGENCY
2430 E St., NW., Washington 25, D. C.

FOR OFFICIAL USE ONLY

CONSOLIDATED TRANSLATION SURVEY

FOR MARCH 1966

TABLE OF CONTENTS

	<u>Page</u>
Preface	iii
Requests For Copies	iv
USSR	
Economic	1
Political	11
Military	12
Geographic	13
Biographic	15
Sociological	15
Eastern Europe	
Economic	16
Political	26
Military	26
Sociological	28
Biographic	29
Western Europe	
Economic	29
Political	30
Military	33
Geographic	34
Africa	
Economic	35
Political	36
Military	38
Sociological	38
Middle East	
Economic	38
Political	39
Military	40
Sociological	40
Far East	
Economic	41
Political	42
Military	44
Geographic	44
Sociological	44

	<u>Page</u>
Latin America	
Economic	44
Political	46
Geographic	48
Sociological	48
Scientific	
Aerospace	49
Agriculture	51
Biological & Medical Sciences	54
Chemistry	73
Earth Science & Astronomy	78
Electronics	85
Engineering	96
Fuels & Propulsion	103
Materials & Metallurgy	104
Mathematics & Data Processing	119
Nuclear Sciences & Technology	122
Physics	125
Miscellaneous	133
Information on Cover-To-Cover Translations	134
Index to Authors	210

CONSOLIDATED TRANSLATION SURVEY

PREFACE

This survey is prepared monthly by the Foreign Documents Division, Office of Central Reference, CIA, from lists received through the cooperation of US government agencies and includes translations prepared by such agencies, private industry, universities, research institutions, and commercial translation organizations. It is a compilation of foreign documentary projects completed or started during the preceding month.

Translations are listed by area and subject category. Scientific projects are grouped as a section regardless of geographic area. Title in English, author, foreign language title of source of material, date of publication, and publication identification of the completed project are given when available. Tables of contents of journals translated cover-to-cover are reproduced from the current publications.

Projects in process, i.e., not completed as of the date of this survey, are noted with an asterisk (*), and, when available, a project-control or "in-process" number is noted in parentheses following the title. Certain details may be unavailable on such projects. New projects in process are not listed again until they are completed.

An index to authors of items in this issue is provided at the end of the survey.

REQUESTS FOR COPIES

Requests for copies of published projects should be made direct to the designated producing organization.

All requests for items prefixed by "CIA" should be addressed to Office of Central Reference, 2430 E Street, NW, Washington, D.C. 20505

Addresses of producers to follow:

ACIC - Aeronautical Chart and Information Center (see CFSTI)

ACSI - (see DIA)

AEC - Atomic Energy Commission (see CFSTI)

AFCRL Res Lib

Air Force Cambridge Research Laboratories
Research Library
Office of Aerospace Research
United States Air Force
Laurence G. Hanscom Field
Bedford, Massachusetts
ATTN: CRMXLR

AGU

American Geophysical Union
1515 Massachusetts Avenue, NW
Washington, D.C. 20005

AI

Advance Information
Frederick A. Praeger, Publishers
111 Fourth Avenue
New York, N.Y. 10003

AIP

American Institute of Physics
335 East 45th Street
New York, New York 10017

Amer Math Soc

American Mathematical Society
190 Hope Street
Providence 6, Rhode Island

ANL - Argonne National Laboratory, Illinois
(See AEC)

APL - Applied Physics Laboratory (see Navy)

ATD - Aerospace Technology Division
(see Library of Congress)

BISI

British Iron and Steel Industry Translation Service
The Iron and Steel Institute
4 Grosvenor Gardens
London, S. W. 1, England

Bu. Cen

Department of Commerce, Bureau of Census
Foreign Manpower Research Office
General Federal Office Building 3
Suitland, Maryland

CB

Consultants Bureau Enterprises, Incorporated
227 West 17th Street
New York, New York 10011

CFSTI

Clearing house for Federal Scientific and
Technical Information (Formerly Office of
Technical Services)
Port Royal and Braddock Roads
Springfield, Virginia 22151

DIA

Defense Intelligence Agency
Washington D.C. 20301

Dept of Interior

Department of Interior
Department Library
Foreign Documentation Section
Washington, D.C. 20240

FP

The Faraday Press, Inc.
84 Fifth Avenue
New York, N. Y. 10011

FTD - Foreign Technology Division (see AF)

GSA

Geological Society of America
Publishing Department
419 West 117th Street
New York 27, New York

HB

Henry Brutcher Technical Translations
P.O. Box 157
Altadena, California 91001

HEW - See NIH

IEEE

Institute of Electrical and Electronics Engineers
275 Madison Avenue
New York, New York 10016

JHU/APL - The Johns Hopkins University/Applied Physics
Laboratory (see Navy)

JILA

Joint Inst for Laboratory
Astrophysics, NBS

JPRS

U. S. Department of Commerce
Clearinghouse for Federal Scientific
and Technical Information
Joint Publications Research Service
Building Tempo E,
East Adams Drive, 4th & 6th Streets, SW
Washington, D.C. 20443

Maritime Admin

Maritime Administration
Office Services
GAO, 5th and G Streets, NW
Washington, D.C.

MT

M. de O. Tollemache
Pennyford Cottage
Burrington, Umberleigh
Devon, England

NASA

National Aeronautics and Space Administration
1512 H Street, NW
Washington, D.C. 20546

Navy

Department of Navy
Office of Naval Intelligence
Washington 25, D.C.

NIH

Circulation Unit
Readers Services Section
Library Branch, DRS
National Institutes of Health
Building 10, Room 5N118
Bethesda, Maryland 20014

NMS - Navy Medical School (see Navy)

NRL - Naval Research Laboratories (see Navy)

NSTIC

Naval Sci and Tech Intell Ctr

Department of the Navy
CNO/ONI
922 STIC
Pentagon

ONI - Office of Naval Intelligence (see Navy)

ORNL - Oak Ridge National Laboratory (see AEC)

Patent Office

Department of Commerce, Patent Office
Scientific Library
14th and Constitution Avenue, NW
Washington, D.C.

Primary Sources

Primary Sources
11 Bleecker Street
New York, New York 10012

RAPRA

Palmerton Publishing Company, Incorporated
101 West 31st Street
New York 1, New York

SLAC - Stanford Linear Accelerator Center - (see AEC)

Soil Sci Soc of Amer, Inc

Soil Science Society of America, Incorporated
Program Director, Soviet Soil Science
677 South Segoe Road
Madison, Wisconsin 53711

UCRL

University of California
Lawrence Radiation Laboratory
Livermore, California
(see AEC)

USRL

Office of Naval Research
U.S. Navy Underwater Sound Reference Laboratory
P.O. Box 8337
Orlando, Florida 32806

Economic

New Methods of Determining the Activity (Strength) of Cements in Low-Plastic Mortars and a New Grading System for Cement, 5 pp.
RUSSIAN, per, Beton i zhelezobeton, No 10, Oct 1965, pp. 41-42.
JPRS 33878

Conference on Problems of Precast Reinforced Concrete Industry, by A. Ye. Sheykin and L. A. Kayser, 8 pp.
RUSSIAN, per, Beton i zhelezobeton, No 10, Oct 1965, pp. 43-45.
JPRS 33878

Proposals for Improving the Use of Concrete in Construction, 5 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, No 10, Oct 1965, pp. 4-6.
JPRS 33878

Today and Tomorrow in Soviet Power Engineering, by P. Neporozhniy, 13 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 46, Nov 1965, pp. 4,5.
JPRS 33983

The Growth of the Petroleum Industry in the USSR, by V. Shashin, 9 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, Nov 1965, pp. 12-13.
JPRS 34111

Measures to Increase Profitability of the Dnepropetrovsk Tire Plant, by B. Zolotov and V. Sergiyenko, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Dec 1965, p. 21.
JPRS 34069

Stimulation of Agricultural Production, by S. Kolesnev, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 48, Dec 1965, p. 38.
JPRS 33979

The Enterprises and Material Incentives, by B. Sukharevskiy, 12 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 49, Dec 1965, pp. 12-14.
JPRS 34335

Economic Research and Scientific Organization, by O. Pashkevich, 6 pp.
RUSSIAN, per, Ekonomicheskaya gazeta, No 49, Dec 1965, pp. 14-15.
JPRS 34183

New Construction Methods and Incentives at the Tripol'skaya Gres, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 49, Dec 1965, p. 21.
JPRS 34135

Recommendations on Material Reward in Light Industry for Product Quality Improvement, by Ya. Orlov and Ya. Kotlikov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 49, Dec 1965, p. 32.
JPRS 34054

Training of Supervisory Personnel, by B. Ovezov, 7 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 50, Dec 1965, pp. 4-5.
JPRS 34211

Organization of Research and Introduction of Its Results, by Ye. Smiritskiy, 13 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 50, Dec 1965, pp. 9-10.
JPRS 34183

Soviet Transportation Faces New Problems, by B. Beshchev, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 50, Dec 1965, pp. 11-12.
JPRS 34274

Prerequisites for Increased Efficiency of Electric Power Stations, by K. Knyazev, 5 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 50, Dec 1965, p. 14.
JPRS 34496

Profitability of Socialist Enterprises, by Ye. Liberman, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, pp. 6-7.
JPRS 34026

USSR
Economic (Contd)

Some Problems in the Implementation of Economic Reforms, by V. Filippov, 13 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 51, Dec 1965, pp. 8-9.
JPRS 34183

Part and Process Specialization in Machine-Building, by Ye. Slastenko, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, pp. 16-17.
JPRS 33967

Work of Moscow Tire Plant Analyzed, by P. Kazakov, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, p. 19.
JPRS 34227

Planning Optimum Proportions between Consumption and Accumulation, 8 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, pp. 22-23.
JPRS 34335

Improvements in Industrial Management, by N. Izvol'skaya, 9 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, pp. 26-27.
JPRS 33979

Operational Problems of the Donets Railroad System, by Ya. Krivenko, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 51, Dec 1965, p. 31.
JPRS 34274

Theoretical Bases and Practice of Economic Experiments, by S. Yampol'skiy, 10 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 52, Dec 1965, pp. 5-6.
JPRS 34053

The Prospects and Development of Soviet Instrument-Building, by K. Rudnev, 8 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 52, Dec 1965, pp. 12-13.
JPRS 33996

USSR
Economic (Contd)

Economic Reforms and Economic Collaboration among the Socialist Nations, by O. Bogomolov, 8 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 1, Jan 1966, pp. 14-15.
JPRS 33997

The Important Condition for the Development of the Economy, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 2, Jan 1966, p. 3.
JPRS 34115

The Overall Development of Productive Forces, by L. Koshkarova, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 2, Jan 1966, p. 7.
JPRS 34115

Plans to Provide Equipment to Existing Enterprises, by V. Bitunov, 5 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 2, Jan 1966, p. 28.
JPRS 34234

Recommendations of the All-Union Scientific Session on Economic Stimulation of the Development of New Technology in Industry, 9 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 2, Jan 1966, pp. 33-34.
JPRS 34099

"Sel'khoztekhnika" Fertilizer Dilemma, by N. Yakovchuk, 6 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 3, Jan 1966, pp. 37-38.
JPRS 34500

Certain Social and Economic Problems of Technical Progress, by A. Omarov, 9 pp.
RUSSIAN, np, Ekonomicheskaya Gazeta, No 4, Jan 1966, pp. 11-12.
JPRS 34353

Directions for the Conversion of Enterprises to the New System of Planning and Economic Incentive, 27 pp.
RUSSIAN, np, Ekonomicheskaya gazeta, No 6, Feb 1966, pp. 31-35.
JPRS 34232

USSR
Economic (Contd)

Temporary Wholesale Prices and the Quality of Industrial Output, by N. Shekhet, 15 pp.
RUSSIAN, per, Ekonomicheskiye nauki, No 6, 1965, pp. 9-16.
JPRS 34286

Application of Mathematical Methods in the Soviet Economy, 9 pp.
RUSSIAN, per, Ekonomika i matematicheskiye metody, Vol 1, No 6, Nov-Dec 1965, pp. 817-822.
JPRS 34183

Economic Evaluation of Skilled Manpower in a Small Size Long-Range Planning Model, by B. N. Mikhalevskiy, 12 pp.
RUSSIAN, per, Ekonomika i Matematicheskiye Metody, No 6, Nov-Dec 1965, pp. 888-896.
JPRS 33979

The Use of a Consolidated Model of the Inter-Branch Balance in Calculating the Long-Term Planning Balance for the Gross Product of a Union Republic, by E. F. Baranov, 14 pp.
RUSSIAN, per, Ekonomika i matematicheskiye metody, Vol 1, No 6, Nov-Dec 1965, pp. 940-947.
JPRS 34154

Multiprogramming on Electronic Computers, by N. S. Isayeva, 15 pp.
RUSSIAN, per, Ekonomika i matematicheskiye metody, Vol 1, No 6, Nov-Dec 1965, pp. 948-958.
JPRS 34154

Scholars Discuss the Most Important Problems of Price Fixing, by B. Lapan and N. Tyapkin, 8 pp.
RUSSIAN, per, Ekonomika Sel'skogo Khozyaystva, No 4, Apr 1965, pp. 24-27.
JPRS 33937

Transition to New Norms and Prices in Construction, 39 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, No 5, May 1964, pp. 34-54.
JPRS 34037

USSR
Economic (Contd)

Price-Fixing and Estimates Must be Improved, 7 pp.
RUSSIAN, per, Ekonomika Stroitel'stva, No 9, Sept 1964, pp. 64-66.
JPRS 33936

Technical-Economic Bases for the Selection of Type of Energy for Household Needs in the Cities of the USSR, by B. L. Ayzenberg, V. M. Dmitriyev, L. D. Klebanov, L. I. Sharova, and Ye. I. Berkhman, 12 pp.
RUSSIAN, per, Elektrichestvo, No 11, Nov 1965, pp. 71-74.
JPRS 34496

Finish the Year with Success, 6 pp.
RUSSIAN, per, Finansy SSSR, No 9, Sept 1965, pp. 3-6.
JPRS 34122

Problems of Personnel Management, by M. Kuzin, 10 pp.
RUSSIAN, per, Finansy SSSR, No 9, Sept 1965, pp. 7-12.
JPRS 34122

The System of Computation and Payment of Turn-over Tax for Some Commodities, by V. Volodikhin, 8 pp.
RUSSIAN, per, Finansy SSSR, No 9, Sept 1965, pp. 75-78.
JPRS 34122

Finances and Stimulation of the Growth of Labor Productivity, by R. Vinokur, 25 pp.
RUSSIAN, per, Finansy SSSR, No 10, Oct 1965, pp. 25-39.
JPRS 33965

Status of USSR Gas Industry as of 48th Anniversary of the October Revolution, 5 pp.
RUSSIAN, per, Gasovaya Promyshlennost', No 11, 1965, pp. 1-3.
JPRS 34152

Principles of an Approximate Theory of Magnetic Logging with Spaced Pickups in Slightly Magnetic Rocks, by V. V. Sochel'nikov, 16 pp.
RUSSIAN, per, Geologiya i Geofizika, No 10, 1965, pp. 106-117.
JPRS 34072

USSR
Economic (Contd)

New Economic Forms of Organization of Electric Power Station Construction, by P. S. Neporozhniy, 7 pp.
RUSSIAN, per, Gidrotekhnicheskoye Stroitel'stvo, No 11, Nov 1965, pp. 1-4.
JPRS 34023

Price Formation in the USSR during the Decade 1953-1963, by A. N. Malafeyev, 92 pp.
RUSSIAN, bk, Istoriya Tsenoobrazovaniya v SSSR, 1917-1963, 1964, pp. 272-335 and 415-437.
JPRS 33949

The First Leningrad Conference "Problems of Engineering Psychology in Instrument Building, by S. M. Kessel'man, 6 pp.
RUSSIAN, per, Izmeritel'naya Tekhnika, No 8, Aug 1965, pp. 51-52.
JPRS 34176

Production Accomplishments at Seversk Pipe Plant in Sverdlovskaya Oblast, by B. Biryukov and I. Karpenko, 5 pp.
RUSSIAN, np, Izvestiya, 23 Dec 1965, p. 5.
JPRS 34209

Wasteful Transportation, by A. Rogachevskiy, 5 pp.
RUSSIAN, np, Izvestiya, 25 Dec 1965, p. 3.
JPRS 34009

Tyumen': Problems of Development, by A. Protozanov, 6 pp.
RUSSIAN, np, Izvestiya, 30 Dec 1965, p. 2.
JPRS 34183

Over Fifteen Ministries and Departments Engaged in Planning and Production of Equipment for Modern Apartments, by K. Zhukov, 5 pp.
RUSSIAN, np, Izvestiya, 21 Oct 1965, p. 4.
JPRS 33878

USSR 1965 Plan Fulfillment, 20 pp.
RUSSIAN, np, Izvestiya, 3 Feb 1966, pp.1-2.
JPRS 34248

USSR
Economic (Contd)

Development of Productive Capacity in Economic Regions of the USSR (Integrated Exploitation of Natural Resources in the Northern Part of the Ob' Basin), by D. V. Belorusov, 14 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, No 4, 1964, pp 67-78.
ACSI I-8463-C
ID 2204049865

A Consideration of Certain Prerequisites for the Industrial Development of Small and Medium-Size Cities in the Central Economic Region, by F. M. Listengurt, I. M. Smolyar, 13 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, No 4, 1964, pp 79-90.
ACSI I-8463-D
ID 2204049865

Improving Economic Districting in the Kazakh SSR in Connection With the Development of the Now Five-Year Plan for 1966--1970, by B. Ya. Dvoskin, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograficheskaya, No 4, 1964, pp 91-96.
ACSI I-8463-E
ID 2204049865

Notes on the Accounting and Election Party Meetings, by V. Berezov, 9 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 24-29.
JPRS 34124

Activities and Plans of Party Organizations, 14 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 30-39.
JPRS 34124

Economic Science and National Economic Management, by A. Rumyantsev, 19 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 42-54.
JPRS 34124

USSR
Economic (Contd)

Consumer Centered Production, by S. Anufriyenko, 11 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 63-69.
JPRS 34124

A Motor Vehicle Plant is Preparing to Adopt a New Working Method, by P. D. Borodin, 5 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 70-72.
JPRS 34124

Economic Reform and the Increased Role of Credit, by V. Batyrev, 14 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966, pp. 39-48.
JPRS 34499

On the More Efficient Use of Material Resources, by I. Alling, 5 pp.
RUSSIAN, per, Kommunist Estonii, Nov 1965, pp. 29-32.
JPRS 34115

Overall Mechanization and Automation in Machine Building in Latvian SSR, by V. Paupa, 7 pp.
RUSSIAN, per, Kommunist Sovetskoy Latvii, No 11, Nov 1965, pp. 23-27.
JPRS 34057

Electrification of Agriculture in the Uzbek SSR, by Yu. Zotov, 9 pp.
RUSSIAN, per, Kommunist Uzbekistana, No 9, Sept 1965, pp. 31-37.
JPRS 34023

Production of the Light and Food Industries and Their Achievements in the Seven Year Plan, 6 pp.
RUSSIAN, per, Masloshirovaya Promyshlennost', No. 11, Nov 1965, pp. 1-3.
JPRS 34054

Greater Worker Share in Management to be Stressed at Eighth Congress of Metallurgists' Trade Union, by I. I. Kostyukov, 5 pp.
RUSSIAN, per, Metallurg, No 11, Nov 1965, pp. 1-3.
JPRS 34031

USSR
Economic (Contd)

Electric Steel Smelting Production at the "Dneprospetsstal" Plant, by P. V. Demidov and V. F. Smolyakov, 7 pp.
RUSSIAN, per, Metallurgicheskaya i gornorudnaya promyshlennost', No 5, 1965, pp. 16-19.
JPRS 34010

Regulation of Cooperation between Specialized Agricultural Institutions, by Pal Losonczy, 7 pp.
HUNGARIAN, per, Mezogazdasag Ertesito, No 46, 17 Nov 1965, pp. 645-648.
JPRS 34137

Changes in the Structure of Capitalist Ownership, by S. Dalin, 24 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhdunarodnyye Otnosheniya, No 12, Dec 1965, pp. 42-59.
JPRS 34343

Moscow Economic Journal Reports on Working Class of Liberated Countries, by L. Gordon and L. Fridman, 16 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdunarodnyye otnosheniya, No 12, Dec 1965, pp. 75-87.
JPRS 34016

Proposal of Division of Marxist Political Economy in Development of Young Governments Debated in Moscow Economic Journal, by L. Dvorzhak, 7 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdunarodnyye otnosheniya, No 12, Dec 1965, pp. 98-102.
JPRS 33932

Soviet International Economics Journal Concludes Discussion of Neocolonialism, by V. Rybakov, V. Tyagunenko and Ya. Khavinson, 20 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdunarodnyye otnosheniya, No 12, Dec 1965, pp. 113-122.
JPRS 34016

The Basic Directions of Development of the Dairy Industry of the USSR for 1966-1970, 10 pp.
RUSSIAN, per, Molochnaya Promyshlennost', No 11, Nov 1965, pp. 4-7.
JPRS 33945

USSR
Economic (Contd)

A New System of Industrial Planning, by Zh. Abutalipov, 6 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 11, 1965, pp. 26-28.
JPRS 34370

Statute on the Socialist State Production Enterprise, 25 pp.
RUSSIAN, per, Narodnoye Khozyaystvo Kazakhstana, No 11, 1965, pp. 29-39.
JPRS 34126

New Financing of Information Organs, by S. S. Gubin, 5 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Informatsiya, No 9, 1965, pp. 5-6.
JPRS 34159

Petroleum and Gas Production Results for 1965 and Planned Expansion in 1966, 7 pp.
RUSSIAN, per, Neftyanoye Khozyaystvo, No 11, Nov 1965, pp. 1-5.
JPRS 34211

Significance of the New Economic Reforms, by A. Birman, 33 pp.
RUSSIAN, per, Novyy mir, No 12, Dec 1965, pp. 194-213.
JPRS 34348

Contemporary Problems of Power Engineering, by D. Zhimerin, 10 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec 1965, pp. 1-8.
JPRS 34189

The Utilization of Balances in the National Economy for Economic Planning of the Union Republics, by A. Osad'ko, A. Balashova and V. Rutgayzer, 11 pp.
RUSSIAN, per, Planovoye khozyaystvo, No 12, Dec 1965, pp. 20-29.
JPRS 34136

Plan Indexes for Development of Soviet Transportation, by T. Lazarenko, 7 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec 1965, pp. 41-46.
JPRS 34274

USSR
Economic (Contd)

Calculation of Sector Output Plans in Foundry Shops with the Aid of Electronic Computers, by Ye. Veles'ko and N. Orlova, 8 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec 1965, pp. 56-59.
JPRS 34453

Principles and Criteria of Optimal Planning, by V. Dadayan, 21 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec 1965, pp. 60-72.
JPRS 34453

Scientific Study of the Relations between Transport and the Economy, by Yu. Koldomasov, 6 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 12, Dec 1965, pp. 87-89.
JPRS 34274

Scientific and Technical Progress and Ways of Developing Domestic Machine Building, by V. Lisitsyn, 16 pp.
RUSSIAN, per, Planovoye Khozyaystvo, No 1, Jan 1966, pp. 10-23.
JPRS 34454

National Economic Proportions and the Efficiency of Production, by A. Yefimov, 6 pp.
RUSSIAN, np, Pravda, 13 Dec 1965, p. 2.
JPRS 34182

Transition of the Voskresensk Chemical Combine to the New Operational Conditions, by V. Belyayev, 5 pp.
RUSSIAN, np, Pravda, 8 Jan 1966, p. 2.
JPRS 34125

Azerrbaydzhan Irrigation Problems, by A. Karamyshev and L. Tairov, 5 pp.
RUSSIAN, np, Pravda, 20 Jan 1966, p. 2.
JPRS 34500

The Voronezh Excavator Plant Expects to Make A Profit of 10 Million Rubles in 1966, by S. Borisov and N. Pecherskiy, 5 pp.
RUSSIAN, np, Pravda, 21 Jan 1966, p. 2.
JPRS 34354

USSR
Economic (Contd)

The Branch and the Firm, by I. Shifrin, 5 pp.
RUSSIAN, np, Pravda Ukrainy, 18 Nov 1965,
p. 2.
JPRS 34009

Power Economy, Chapter VI, 23 pp.
RUSSIAN, rpt. Problemy Razvitiya
Proizvoditelnykh Sil Magadanskoj Oblasti,
pp 116-137.
DIA LN 302-65

Reorganizing Industry for Increased Production, 7 pp.
RUSSIAN, per, Promyshlennost' Armenii, No 10,
Oct 1965, pp. 3-6.
JPRS 34370

Success of the Seven-Year Plan in the
Ukraine, by I. Val'ko, I. Yevskov and A.
Tarasenko, 13 pp.
RUSSIAN, np, Rabochaya Gazeta, 30 Nov 1965,
p. 2.
JPRS 34111

Irrigation Construction in Uzbekistan, by N.
Matchanov, 6 pp.
RUSSIAN, np, Sel'skaya Zhizn', 23 Jan 1966,
p. 2.
JPRS 34500

Survey of Labor Legislation and Legal
Practices, 5 pp.
RUSSIAN, np, Sotsialisticheskiy Trud, No 11,
Nov 1965, pp. 10-11.
JPRS 33979

Final Preparations for New Plastics Plant in
Latvia, by L. Prokof'yeva, 6 pp.
RUSSIAN, np, Sovetskaya Latvija, 31 Dec
1965, p. 2.
JPRS 34125

Demand and Higher Public Prosperity, by Sh.
Afrutkin, 8 pp.
RUSSIAN, per, Sovetskaya Torgovlya, No 11,
Nov 1965, pp. 33-37.
JPRS 34054

USSR
Economic (Contd)

A Scientific Basis for Management of Industrial Production, by S. Kamenitser, 11 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No
11, 1965, pp. 42-49.
JPRS 33979

Bonus Fund for Workers in Soviet Industrial Enterprises, by F. Gorin, 10 pp.
RUSSIAN, per, Sotsialisticheskiy Trud,
No 12, Dec 1965, pp. 23-29.
JPRS 34002

The Vitality of the New System of Planning and Economic Incentives, by A. Chirkova, 10 pp.
RUSSIAN, per, Sotsialisticheskiy Trud, No 12,
Dec 1965, pp. 30-36.
JPRS 33987

Pledges for the First Year of the Five-Year Plan in Minsk, 5 pp.
RUSSIAN, np, Sovetskaya Belorussiya, 8 Feb
1966, p. 1.
JPRS 34462

Technical Progress Is the Basis for the Development of Production, by A. Sidorov, 5 pp.
RUSSIAN, np, Sovetskaya Kirgiziya, 1 Feb
1966, p. 2.
JPRS 34493

Planning of Commercial Advertising, by R. Sorokina, 7 pp.
RUSSIAN, per, Sovetskaya Torgovlya, No 11,
Nov 1965, pp. 57-60.
JPRS 34054

Development of Soviet-Indonesian Economic Cooperation, by I. O. Farizov, 37 pp.
RUSSIAN, bk, Sovetsko-Indoneziyskoye Ekonomicheskoye Sotrudnichestvo, 1964, pp. 45-48, 48-60 and 67-96.
JPRS 34369

Republics of Central Asia and Cities of Urals, Siberia, and the Far East Experiencing Shortage of Architects, by G. M. Orlov, 15 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 29 Oct
1965, pp. 2-3.
JPRS 33878

USSR
Economic (Contd)

Discussions at the Fourth All-Union Congress of Architects, 11 pp.
RUSSIAN, np, Stroitel'naya Gazeta, 3 Nov 1965, p. 3.
JPRS 33878

Advantages of Concentrating Construction Machinery in Special Mechanization Trusts and Administrations, by V. Chereshev, 6 pp.
RUSSIAN, np, Stroitel'naya Gazeta, No 133, 10 Nov 1965, p. 2.
JPRS 33878

Greater Utilization of Local Construction Materials Industry Urged, by P. G. Muromskiy, 9 pp.
RUSSIAN, per, Stroitel'nyye Materialy, No 10, Oct 1965, pp. 1-4.
JPRS 33878

Prospects for Water-Management Construction in Cotton-Growing Republics, by V. Vnuchkov and A. Pyatigorskiy, 7 pp.
RUSSIAN, per, Stroitel'stvo i Arkhitektura Uzbekistana, No 7, 1965, pp. 1-3.
JPRS 34090

Articles Published in the Soviet Journal Technology in Agriculture in 1965, 32 pp.
RUSSIAN, magazine, Tekhnika v Sel'skom Khozyaystve, No 12, Dec 1965, pp. 85-93.
JPRS 34320

Classification of Domestic Tractors for Industrial Application, by F. N. Lushnikov, 8 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 12, Dec 1965, pp. 1-3.
JPRS 34056

Increase of Durability and Reliability of Silage Harvesters, by K. V. Klement'yev, 7 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 12, Dec 1965, pp. 23-25.
JPRS 34056

Agricultural Machinery at the International Exhibition "Chemistry in Industry, Construction and Agriculture", by Ye. S. Korenko, 5 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 12, Dec 1965, pp. 41-43.
JPRS 34056

USSR
Economic (Contd)

List of Articles Published in the Journal Traktory i Sel'khoz mashiny in 1965, 17 pp.
RUSSIAN, per, Traktory i Sel'khoz mashiny, No 12, Dec 1965, pp. 43-48.
JPRS 34056

An Interview with A. P. Volkov, Chairman of the State Committee on Labor and Wages of the Council of Ministers, 7 pp.
RUSSIAN, np, Trud, 18 Dec 1965, p. 2.
JPRS 33979

Tasks of Trade Unions in Strengthening Educational Work among Workers and in Strengthening Socialist Discipline of Labor, by T. N. Nikolayeva, 21 pp.
RUSSIAN, np, Trud, 24 Dec 1965, pp. 2-3.
JPRS 34472

Discussion of the Report of Comrade T. N. Nikolayeva at the Eighth Plenum of the All-Union Central Council of Trade Unions, 8 pp.
RUSSIAN, np, Trud, 25 Dec 1965, p. 2.
JPRS 34472

Decree of the Eighth Plenum of the All-Union Central Council of Trade Unions, 10 pp.
RUSSIAN, np, Trud, 28 Dec 1965, p. 2.
JPRS 34472

Russian Trade Union Organ Discusses Economic basis of Democratic Centralism, by B. Rakitskiy and L. Nikiforov, 6 pp.
RUSSIAN, per, Trud, 11 Jan 1966, p. 2.
JPRS 34016

Price Determination in the USSR, by Lazar' Moiseyevich Kantor, 181 pp.
RUSSIAN, bk, Tseno-obrazovaniye v SSSR, 1964, pp. 3-181.
JPRS 34385

Kara-Bugaz Today, by G. Vasil'yeva, 9 pp.
RUSSIAN, np, Turkmeneskaya Iskra, 14 Dec 1965, pp. 3-4.
JPRS 34227

Ties between Scientists of the USSR and Czechoslovakia, by I. N. Kiselev, 8 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 1, Jan 1966, pp. 82-86.
JPRS 34502

USSR
Economic (Contd)

Proposed Methods of Scientific Organization of Labor and Production in Machine Building, by V. I. Skoptsov, 7 pp.
RUSSIAN, per, Vestnik Mashinostroyeniya, No 11, Nov 1965, pp. 3-6.
JPRS 34057

Planning and Surveying Work for Capital Construction, 6 pp.
RUSSIAN, per, Vestnik Statistiki, No 8, Aug 1965, pp. 84-88.
JPRS 33878

Retail Trade of the USSR in 1964, 11 pp.
RUSSIAN, per, Vestnik Statistiki, No 8, Aug 1965, pp. 89-95.
JPRS 33945

The National Income of the USSR and Its Use, 10 pp.
RUSSIAN, per, Vestnik statistiki, No 12, Dec 1965, pp. 85-90.
JPRS 34183

In the City of Yakut ASSR Diamonds, 6 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

The Maintenance of Electrocommunication and Radiofication Facilities in Rural Areas, 5 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

How We Utilize the Capital Assets, 6 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

Every Collective of Communications Workers Must Strive for the Fund of the Enterprise, 8 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965
JPRS 34263

USSR
Economic (Contd)

USSR Foreign Trade for 1964, Statistical Review, 441 pp.
RUSSIAN, bk, Vneshnyaya trgovlya za 1964 god, statisticheskiy obzor, 1965, pp. 1-295.
JPRS 34214

The Branch Principle for Managing Industry and Technical Progress, by O. Nekrasov, 12 pp.
RUSSIAN, per, Voprosy ekonomiki, No 11, Nov 1965, pp. 3-13.
JPRS 34136

The Development of Direct Economic Ties and Improving the Distribution of the Means of Production, by Yu. Koldomasov, 12 pp.
RUSSIAN, per, Voprosy ekonomiki, No 11, Nov 1965, pp. 14-25.
JPRS 34136

Ways and Means for Further Chemization of the National Economy, by N. Fedorenko, 11 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1965, pp. 49-56.
JPRS 34069

Reserves for Increasing the Return on Fixed Assets in the Chemical Industry, by V. Belyayev, Z. Okuneva and N. Penkova, 10 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1965, pp. 57-63.
JPRS 34069

Rates and Proportions of Industrial and Agricultural Development, by I. Laptev, 5 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 12, Dec 1965, pp. 44-54.
JPRS 34497

Large-Panel Reinforced Concrete Construction of Urban Housing Projects Found Most Expedient, by V. Antonov, 5 pp.
RUSSIAN, np, Vyshka, 6 Oct 1965, p. 3.
JPRS 33878

On the Problem of Production Shortages, by P. Volin, 6 pp.
RUSSIAN, np, Vyshka, 3 Dec 1965, pp. 2-3.
JPRS 34057

USSR
Economic (Contd)

The Law of Value and Problems of Setting Prices
by D. F. Timosheuskiy, 53 pp.
RUSSIAN, booklet, Zakon Stoimosti i Problemy
Tsenoobrazovaniya, 1964, pp. 3-67.
JPRS 34019

Protective Off-Shore Oil Industry Installations
Against Corrosion, by V. V. Megreyev, A. G.
Khanlarova, et al., 358 pp.
RUSSIAN, bk, Zashchita ot Korrozii Morskikh
Neftepromyslovnykh Sooruzheniy, Moscow, 1964,
Nedra Publishing House.
Dept of Navy Tr 4476/ONI Tr 2076

The Characteristics of the New Method of
Planning by Grisha Filipov, 19 pp.
BULGARIAN, per, Planovo stopanstvo i stati-
stika, No 10, Dec 1965, pp. 3-18.
JPRS 34237

Prospective Development of Chemical-Industry
Machine Building in Bulgaria, 14 pp.
BULGARIAN, per, Planovo stopanstvo i stati-
stika, No 10, Dec 1965, pp. 19-29.
JPRS 34223

The Use of the New System of Planning and
Management in the "Vitosha" State Industrial
Enterprise, by Pavel Tsvetanski and Dimitur
Svilenov, 14 pp.
BULGARIAN, per, Planovo stopanstvo i statistika,
No 10, Dec 1965, pp. 69-78.
JPRS 34237

Technical Development of Energy Supply --
An Obligation of the Electrical Industry,
by Rosel, 9 pp.
GERMAN, per, Elektrie, Vol 19, No 12, Dec
1965, pp. 473-475.
JPRS 34101

Great Tasks Facing Electronics Industry in
1966, by K. Mendel, 5 pp.
GERMAN, per, Nachrichtentechnik, No 1, Jan
1966, pp. 1-2.
JPRS 34223

USSR
Economic (Contd)

Effect of the CEMA Countries' Long-Range
Plan Coordination on Expanding the Speciali-
zation of Production in the Machine Industry,
by Dr. Laszlo Balogh, 11 pp.
HUNGARIAN, per, Ipargazdasag, 15 Dec 1965,
pp. 1-5.
JPRS 34025

Transportation in the Council for Mutual
Economic Assistance, by Foldvari Laszlo, 20 pp.
HUNGARIAN, per, Kozlekedesi Kozlony, Part I:
No. 40, 3 Oct 1965, pp. 678-682, Part II: No
41, 10 Oct 1965, pp. 695-698.
JPRS 34025

Ministerial Decree on Motor Vehicle Taxes,
12 pp.
HUNGARIAN, per, Magyar Kozlony, No 3, 12 Jan
1966, pp. 25-32.
JPRS 34207

Water Resources Management and Bilateral
International Agreements Involving Poland,
by Franciszek Jastrzebski, 8 pp.
POLISH, per, Gospodarka Wodna, No 12, Dec
1965, pp. 450-453.
JPRS 34101

New Chemical Combine at Police, by Krzysztof
Krauss, 5 pp.
POLISH, per, Zycie Gospodarcze, No 49, 5 Dec
1965, p. 4.
JPRS 34101

Polish Sulfur Industry, by Boleslaw Olkusi,
6 pp.
POLISH, per, Zycie Gospodarcze, No 49, 5
Dec 1965, p. 5.
JPRS 34101

Novelties in Polish Export Structure, by
Boleslaw Olkusi, 6 pp.
POLISH, per, Zycie Gospodarcze, No 4,
23 Jan 1966, p. 6.
JPRS 34025

The Construction of the Iron Gates Hydro-
electric Power System and Navigational
System, by Milan Jancikovic, 17 pp.
SERBO-CROATIAN, per, Gradjevinar, No 12,
Dec 1965, pp. 467-474.
JPRS 34471

USSR
Political

The Force of the Example, 14 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966,
pp. 3-11.
JPRS 34124

The Economic Foundations of the Alliance
between the Workers' Class and the Kolkhoz
Peasantry, by I. Glotov, 18 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966,
pp. 12-23.
JPRS 34124

Some Aspects of the Non-Capitalist Develop-
ment of the Liberated Countries, by R. Ul'-
yanovskiy, 14 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966,
pp. 109-119.
JPRS 34124

The Ideological Conviction of the Builders of
Communism, 12 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966,
pp. 3-10.
JPRS 34499

The People's Teacher, by V. Sukhomlinskiy,
16 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966,
pp. 71-80.
JPRS 34499

Criticism of Writings of Valeriy Tarsis, by
Arkaiy Sakhnin, 9 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 8 Feb
1966, p. 3.
JPRS 34257

Condemnation of Soviet Authors A. Sinyavskiy
and Yu. Daniel', by Z. Kedrina, 9 pp.
RUSSIAN, np, Literaturnaya Gazeta, 22 Jan
1966, pp. 2 and 4.
JPRS 34134

Soviet Comments on the Guinean Democratic
Party, by L. Kredoten', 7 pp.
RUSSIAN, per, Mirovaya ekonomika i mezhdunar-
odnyye otnosheniya, No 12, Dec 1965, pp. 128-
131.
JPRS 34016

USSR
Political (Contd)

The Past and Present of the Baath Party's
National Socialism, by Yu. Ostrovityanov,
20 pp.
RUSSIAN, per, Mirovaya Ekonomika i Mezhduna-
rodnyye Otnosheniya, No 1, Jan 1966, pp. 40-
50.
JPRS 34201

CPSU Central Committee Organ Analyzes Second
Edition of Works by Marx and Engels, by L.
Gol'man, 13 pp.
RUSSIAN, per, Partiynaya Zhizn', No 24, Dec
1965, pp. 9-18.
JPRS 34157

Picasso, by I. Golomshtok and A. Sinyavskiy,
42 pp.
RUSSIAN, bk, Pikasso, 1960, pp. 1-64.
JPRS 34352

The Soviet View of the Peasant Movement in
Asian Nations, by P. Anen'yev, 9 pp.
RUSSIAN, per, Politicheskoye samooobrazovaniye
No 12, Dec 1965, pp. 73-79.
JPRS 34016

In the Interests of Communist Construction
and For the Good of the People, 5 pp.
RUSSIAN, np, Pravda, 21 Feb 1966, p. 1.
JPRS 34291

The Decisions of September Plenum of the
Party Central Committee Have To Be Put Into
Practice, 8 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11,
1965
JPRS 33960

USSR
Political (Contd)

The More Authority -- The Higher the Responsibility, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965.
JPRS 34263

A Befitting Welcome for the 23rd Party Congress, 9 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965,
JPRS 34263

Military

Artillery and Small Arms Notebook for the Artillery Officer, by F. S. Kuznetsov,
RUSSIAN, bk, Artilleriysko-strelkovyy Bloknot Ofitsera Artillerii, 1963.
ACSI I-9471
ID 2204017966

Indoctrination of Soviet Armed Forces, by Col. Gen. M. Kalashnik, 12 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 20, Oct 1965, pp. 15-24.
JPRS 34239

The Objective Laws of War and the Principles of Military Art, by Col. P. Trifonenkov, 10 pp.
RUSSIAN, per, Kommunist Vooruzhennykh Sil, No 1, Jan 1966, pp. 8-16.
JPRS 34498

Training Young Naval Officers to Love Their Chosen Profession, by V. Tropin, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 11 Dec 1965, p. 2.
JPRS 34029

Review of Four New Books on Military Subjects, by V. Davidenko, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, 23 Dec 1965, pp. 2-3.
JPRS 34029

USSR
Military (Contd)

Laxity in Naval Maneuvers at Sea, by V. Protsenko, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 24 Dec 1965, p. 2.
JPRS 34029

Need for Better Understanding of Military Equipment by the Personnel, by V. Baranyuk and N. Kostyancy, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 30 Dec 1965, p. 2.
JPRS 34029

The Technique of Compiling Training Schedules, by A. Novgorodov and N. Vasil'yev, 6 pp.
RUSSIAN, np, Krasnaya Zvezda, 4 Jan 1966, p. 2.
JPRS 34029

Sketches from Submarine Life, by I. Panov, 13 pp.
RUSSIAN, np, Krasnaya zvezda, 19 Jan 1966, pp. 1-2.
JPRS 34123

Criticism of Political Workers, by B. Bezlepin, 5 pp.
RUSSIAN, np, Krasnaya zvezda, 20 Jan 1966, pp. 2-3.
JPRS 34123

Political Classification of Warfare, by Col. Sidel'nikov, 7 pp.
RUSSIAN, np, Krasnaya zvezda, 28 Jan 1966, pp. 2-3.
JPRS 34123

Merchant Marine Traffic Organization, by S. M. Topchiy, G. F. Shulyanskiy, A. F. Mironenko, 83 pp.
RUSSIAN, nps, Morskoy Transport, 1962, pp 7-16; 20-23; 24-42; 50-52; 52-63; 65, 131-133; 220-225; 230-233.
DIA LN 285-65
ID 1523272963

USSR
Military (Contd)

The Dockers of Arkhangel'sk, by
M. F. Prichert, B. A. Khudovskov,
RUSSIAN, rpt, Portoviki Arkhangel'ska,
pp 3, 4, 7, 14, 15, 16, 26, 27, 28, 29,
30, 31, 37, 38, 40, 56, 57, 59-61, 69-71.
1965, Moscow.
DIA LN 268-65
ID 5831011465

Rocketeers Are Always in Combat Readiness,
by M. A. Uvarov, 8 pp.
RUSSIAN, per, Vestnik PVO, No 11, Nov 1965,
pp. 18-23.
JPRS 34302

Geographic

Riga, by L. Flaum, 21 pp.
RUSSIAN, rpt 1965, Riga, Latvia,
pp 8-36.
DIA LN 84-66

Production Practices used by Students in
GUGK/Main Administration of Geodesy and
Cartography/Detachments, by N. M. Morozov.
RUSSIAN, per, Geodez i Kartograf, No 8,
1965, pp 73-76.
ACSI I-8896
ID

Development of International Ties in
the Field of Geography and preparation for
the XX International Geographic Congress,
15 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograficheskaya, 1964, No 4,
pp 23-34.
ACSI I-8463-A
ID 2204049865

Natural Resources, Conservation and
Transformation of Nature (Experience
Gained in Determining the Influence of
Large Reservoirs on Local Climate,
by S. L. Vendrov, L. K. Malik, 15 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograficheskaya, No 4, 1964,
pp 35-46.
ACSI I-8463-B
ID 2204049865

USSR
Geographic (Contd)

In International Scientific Organizations
(Australian Symposium on Water
Resources, by L. V. Dumin-Barkovskiy,
V. N. Kumin, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograficheskaya, No 4, 1964,
pp 146-152.
ACSI I-8463-F
ID 2204049865

News Items (First Congress of
Geographers of the Ukrainian SSR),
by A. M. Marinich, 18 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograficheskaya, No 4, 1964,
pp 156-166.
ACSI I-8463-G
ID 2204049865

Fourth Congress of the Geographic
Society of the USSR -- Information
Bulletin, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1964, pp 3-7.
ACSI I-8562A
ID 2204051565

Symposium on Contemporary Problems of
the Physiography of the USSR, by
V. S. Preobrazhenskiy, 15 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1964, pp 18-29.
ACSI I-8562B
ID 2204051565

On the Periodic Rapid Shifts of Glaciers
and the Recent Advance of the Medvezhiy
Glacier in the Pamir, by L. D. Dolgushin,
S. A. Yevteyev, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1964, pp 30-38.
ACSI I-8562C
ID 2204051565

The Budapest Conference on Land Utilization
(6-10 May 1964), by D. L. Armand, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1964, pp 98-101.
ACSI I-8562D
ID 2204051565

USSR
Geographic (Contd)

Reviews -- The Success and Difficulties
of Morphometry, by Yu. A. Meshcheryakov,
7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1964, pp 112-116.
ACSI I-8562E
ID 2204051565

Chronicle E-Conference on Problems of
Circulation of Matter and Energy in Lake
Waters, by L. L. Rossolimo.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geogr,
No 1, 1965, pp 147-148.
ACSI I-7966E
ID 2204043065

Chronicle, 25 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 5, 1965, pp 117-132.
ACSI I-8562F
ID 2204051565

Physical and Geographic Mapping, Part III,
by A. G. Isachenko, 189 pp.
RUSSIAN, bk, Fiziko-Geograficheskoye
Kartirovaniye, Chast' III, 1961, 253 pp.
ACSI I-2669
ID 2234111

Discussion -- Classification of Relief
and Its Representation in the Legends
of Geomorphological Maps, by
N. F. Leont'yev, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 6, 1964, pp 85-90.
ACSI I-8532A
ID 2204050865

Scientific Research Methods -- Experience
in Use of Edge-Punched Cards in
Landscape Research, by T. D. Aleksandrova,
9 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geograf,
No 6, 1964, pp 92-97.
ACSI I-8532B
ID 2204050865

USSR
Geographic (Contd)

In International Scientific Organizations
-- The Twentieth International Geographic
Congress (London, 20-28 July), by
I. P. Gerasimov, A. A. Mints, 4 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograf, No 6, 1964, pp 119-121.
ACSI I-8532C
ID 2204050865

Geographic Aspects of the Seventh
International Congress of Anthropologists
and Ethnographers, by V. V. Pokshishevskiy,
11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograf, No 6, 1964, pp 121-127.
ACSI I-8532D
ID 2204050865

Toponymics in Kazakhstan, by
E. M. Murzayev, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograf, No 6, 1964, pp 137-139.
ACSI I-8532E
ID 2204050865

Problems of Neotectonics (On the Results
of the Conference of the Fourth Plenary
Session of the Geomorphological Commission
on 19-23 May 1964), 15 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser
Geograf, No 6, 1964, pp 141-150.
ACSI I-8532F
ID 2204050865

Natural Regions of USSR, by F. N. Mil'kov,
188 pp.
RUSSIAN, bk, Prirodnyye Zony SSR, 1964,
pp 3-286.
ACSI I-6249
ID 2204056864

Geological Accompaniment on Aerogeophysical
Routes in Hilly and Mountainous Terrain,
by O. S. Kornev, 4 pp.
RUSSIAN, per, Razvedka i Okhrana Nedr,
No 9, 1965, pp 52-59.
ACSI I-8938
ID 2204066565

USSR
Geographic (Contd)

Hydrogeologic Zoning and Subsurface Water Balance of the Central Part of the North-western Caspian Area, by V. I. Mudukin, Yu. G. Yeremenko,
RUSSIAN, per, Sovet Geol, Vol V, 1962, pp 82-87. 9232016
UCRL Tr 1307(L)

The Content and Compilation of Cadastral Maps of the Land of Administrative Areas, by E. V. Golovenko, L. I. Gorbunova, 7 pp.
RUSSIAN, per, Vest Mosk Univ, No 2, 1964, pp 65-71.
ACSI I-8534A
ID 2204051065

Scientific Notes -- The Mudflow on the Issyk River on 7 July 1963, by S. P. Kavetskiy, Ye. M. Kalmykina, 4 pp.
RUSSIAN, per, Vest Mosk Univ, No 2, 1964, pp 77-80.
ACSI I-8534B
ID 2204051065

Chronicle -- Second Interdepartmental Scientific Conference on the Problems of the Left-Bank Ukraine, by L. I. Grishina, 4 pp.
RUSSIAN, per, Vest Mosk Univ, No 2, 1964, pp 95-96.
ACSI I-8534C
ID 2204051065

Cartographic Method of Determining the Configuration and Density of Correlation Links, by V. A. Cheryakov, 6 pp.
RUSSIAN, per, Vest Moskov Univ, Ser V, Geograf, No 5, 1964, pp 75-78.
ACSI I-8867
ID 2204064865

Atlas of Invertebrates of the Far Eastern Seas of the USSR, by E. N. Pavlovii.
RUSSIAN, per, Zoologicheskii Institut Akademii Nauk SSSR, Moskva, 1955, 243 pp.
*CFSTI TT 66-51067

USSR
Biographic

Chronicle F. Seventieth Anniversary of Valentin Petrovich Popov.
RUSSIAN, per, Iz Ak Nauk SSSR, Geog Ser, No 1, 1965, pp 149.
ACSI I-7966F
ID 2204043065

Boris Genrikhovich Ostrovskiy (On His 75th Birthday), by Ye. P. Busygin, A. V. Stupishin, 7 pp.
RUSSIAN, per, Iz Vsesoy Geograf Obshch, No 4, 1965, pp 379-382.
ACSI I-8784
ID 2204063265

Sociological

On Organization of the Section of Thermal Power Engineering of the Scientific and Technical Council of the Ministry of Higher and Secondary Specialized Education USSR, by V. Yelyuten, 11 pp.
RUSSIAN, per, Bulleten' Ministerstva Vysshogo i Srednego Spetsial'nogo Obrazovaniya SSSR, No 11, Nov 1965, pp. 5-9.
JPRS 34178

On Production Training in Topographic Technical Schools, by P. P. Sklyar, A. I. Biryukov.
RUSSIAN, per, Geodeziya i Kartografiya, No 4, 1964, pp 73-78.
ACSI I-7968
ID 2204043265

The Serious Shortcomings of the Journal Kul'turno-prosvetitel'naya Rabota (Cultural-Educational Work), by F. Korovin and D. Gusev, 7 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966, pp. 123-126.
JPRS 34499

A word on Progress, by P. L. Kapitsa, 12 pp.
RUSSIAN, np. Komsomol Pravda, Jan 20, 1966, p 2.
Dept of Navy 4544/NRL Tr 1049

USSR
Sociological (Contd)

Moscow Paper Discusses Communist "Morality",
by S. Bardin, 8 pp.
RUSSIAN, np, Moskovskaya Pravda, 26 Dec 1965,
pp. 2-3.
JPRS 34016

A Custom Older Than Islam, by T. Suley-
manova, 8 pp.
RUSSIAN, per, Nauka i religiya, No 1, Jan
1966, pp. 10-14.
JPRS 34193

Islam and the Present, by L. Klimovich,
8 pp.
RUSSIAN, per, Nauka i religiya, No 1, Jan
1966, pp. 31-36.
JPRS 34193

Increased Production Through Improved
Training of Cadres, by P. Khodos, 6 pp.
RUSSIAN, np, Sovetskaya Kirgiziya, 23 Dec
1965, p. 2.
JPRS 34370

The Interests of the Population Are in the
Forefront, 10 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11,
1965,
JPRS 33960

The Law of Large Numbers and Social Statistics,
by O. O. Yakhot, 14 pp.
RUSSIAN, per, Voprosy Filosofii, No 12, 1965,
pp. 80-90.
JPRS 34118

Problems of Marxist-Leninist Esthetics
and Esthetic Education, by N. V. Manova,
152 pp.
RUSSIAN, bk, Voprosy Na Marksistko-
Leninskata Estetika i Esteticheskoto
V'zpitaniye, 1963, 134 p. 9699936
FTD-TT-65-964

EASTERN EUROPE

Economic

Improved Quality and Better Packaging for
Export Products, by Vasil Kati, 8 pp.
ALBANIAN, np, Ekonomia Popullore, Sept-Oct
1965, pp. 21-30.
JPRS 33933

Functions of Ministry of Communal Economy
As Delineated in Council of Ministers
Decision No. 278, 5 pp.
ALBANIAN, per, Gazeta Zyrtare, No 9, 15 Oct
1965, pp. 319-323.
JPRS 34039

Minister of Trade Urges Utilization of All
Resources to Achieve an Increase in Export
Volume, by Kico Mgjela, 7 pp.
ALBANIAN, np, Zeri i Popullit, 2 Dec 1965,
p. 2.
JPRS 33933

Improved Training for Medical Cadres, by Ciril
Pistoli, 5 pp.
ALBANIAN, np, Zeri i Popullit, 19 Dec 1965,
p. 3.
JPRS 33933

Suggestions for a Greater Utilization of
Domestic Resources in the Communal Economy,
by Pjeter Kosta, 6 pp.
ALBANIAN, np, Zeri i Popullit, 24 Dec 1965,
p. 3.
JPRS 33933

Bureaucracy of Excessive Memos and Reports
Deplored, 8 pp.
ALBANIAN, np, Zeri i Popullit, 26 Dec 1965,
p. 2.
JPRS 33933

Summary of Agricultural Successes during 1965,
5 pp.
ALBANIAN, np, Zeri i Popullit, 1 Jan 1966,
p. 3.
JPRS 34218

Eastern Europe
Economic (Contd)

Absenteeism and Waste of Time Keep Enterprises from Fulfilling Plans, by Dervish Fjiriti, 9 pp.
ALBANIAN, np, Zeri i Popullit, 12 Jan 1966, pp. 2-3.
JPRS 34329

Decree No 53 of 13 December 1965 for Raising the Standard of Living in 1966 and 1967, 6 pp.
BULGARIAN, per, Durzhaven vestnik, No 99, 17 Dec 1965, pp. 1-3.
JPRS 33931

Decree on State Economic Unions in the Committee for Forests and the Forestry Industry, by Zh. Zhivkov, 5 pp.
BULGARIAN, per, Durzhaven vestnik, No 3, 11 Jan 1966, pp. 2-3.
JPRS 34042

The New Functions of the State Savings Bank, by Ivan Paliyski, 10 pp.
BULGARIAN, per, Finansi i kredit, No 10, Dec 1965, pp. 3-12.
JPRS 34351

The Characteristics of the New System of Planning and Management of the National Economy, by Grisha Filipov, 18 pp.
BULGARIAN, per, Novo vreme, No 1, Jan 1966, pp. 10-24.
JPRS 34507

Development of Training and Experimental Farms of the German Academy of Agricultural Sciences in Berlin after the Eighth German Farmers Congress, by Dr. H. Fell, 9 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 2, Feb 1966, pp. 53-57.
JPRS 34505

1965-1970: The Decisive Years for the Gas Industry of East Germany, by H. Schubert, and M. Engshuber, 16 pp.
GERMAN, per, Energietechnik, Vol 15, No 12, Dec 1965, pp. 529-534.
JPRS 34366

Eastern Europe
Economic (Contd)

The Tasks of Farming in 1966, by H. Reichelt, 5 pp.
GERMAN, per, Feldwirtschaft, No 1, 1966, pp. 5-6.
JPRS 34468

Current Status and Future Tasks of Trade and Supply, by Dr. Kurt Bernheier, 10 pp.
GERMAN, per, Der Handel, No 1, Jan 1966, pp. 1-4.
JPRS 34384

Society for Commercial Management Counselling Established, by Horst Winter, 6 pp.
GERMAN, per, Der Handel, No 1, Jan 1966, pp. 9-11.
JPRS 34384

The SAVANNAH, a Year's Operation, by R. Weidauer,
GERMAN, per, Hansa, Vol CII, No 18, Sept 1965.
Dept of Comm
Maritime Administration

The New System for Planning and Managing the National Economy and Capital Investment Problems, by Evgeni Sibinov, 12 pp.
BULGARIAN, per, Ikonomicheska misul, No 10, Dec 1965, pp. 3-14.
JPRS 34088

Concerning Genuine Self-Support in Enterprises under the New System of Planning and Economic Management, by Emil Khristov, 11 pp.
BULGARIAN, per, Ikonomicheska misul, No 1, Jan 1966, pp. 23-32.
JPRS 34088

Chartering and Financing Conditions in International Maritime Transport, by Leif H. Nordard,
Gen. Leif H. Nordard, Institute for Shipping Research, Bergen,
Dept of Comm
Maritime Administration

Eastern Europe
Economic (Contd)

The Basic Principles of the New System of Planning and Management of the National Economy, by N. T. Kurklisiyski, 15 pp.
BULGARIAN, per, Izvestiya na Visshiya institut za narodno stopanstvo "Dimitur Blagoev"-varna, No 2, 1965, pp. 1-13.
JPRS 34028

The Role of the State Budget in the New System of Planning and Management of the National Economy, by Stefan Markovich, 20 pp.
BULGARIAN, per, Izvestiya na Visshiya institut za narodno stopanstvo "Dimitur Blagoev" - Varna, No 2, 1965, pp. 15-31.
JPRS 34028

Intensification, A General Law for the Development of Bulgarian Agriculture, by Prof. Petko Kirev, 11 pp.
BULGARIAN, per, Kooperativno zemedelie, No 12, Dec 1965, pp. 3-5.
JPRS 33940

Imports and Certain Economic Problems of Material Reserves in Bulgaria, by Todor Todorov, 10 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 9, Oct 1965, pp. 3-11.
JPRS 33966

The Role of Agreements in the New System of Planning and Managing the National Economy, by Nedelcho Yankov, 10 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 9, Oct 1965, pp. 60-67.
JPRS 33931

Profitability of Tobacco Production, by Stoyan Mikhaylov, 9 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 10, Dec 1965, pp. 51-57.
JPRS 34265

The New Long-Term Agreement with the USSR -- A Guarantee for the Uninterrupted Progress of the Bulgarian Economy, by Dimitur Dyankov, 6 pp.
BULGARIAN, per, Vunshna turgoviya, No 12, Dec 1965, pp. 2-4.
JPRS 34383

Eastern Europe
Economic (Contd)

New Bulgarian Machinery for Export in 1966, by Engr Ivan Palov, 5 pp.
BULGARIAN, per, Vunshna turgoviya, No 12, Dec 1965, pp. 5-7.
JPRS 34383

The Export of Complete Equipment and Some Characteristics of the Markets in the Developing Countries, by Ivan Kapov, 6 pp.
BULGARIAN, per, Vunshna turgoviya, No 12, Dec 1965, pp. 10-12.
JPRS 34383

New Hungarian-Built Diesel Switching Locomotives, Series 51-00, for the Bulgarian Railways, by Engr Georgi Kitin, 8 pp.
BULGARIAN, per, Zhelezoputen transport, No 12, Dec 1965, pp. 12-15.
JPRS 34148

The National Economy and Communications Problems, by Miloslav Laipert, 9 pp.
CZECH, per, Ceskoslovenske spoje, No 6, Dec 1965, pp. 1-4.
JPRS 34148

On Certain Transportation Problems of the Central Slovak Region, by Jozef Madaj, 11 pp.
CZECH, per, Doprava, No 13, 1965, pp 211-219.
ACSI I-8472
ID 2204018266

Research Aims of Underdeveloped Nations, by Ctibor Votrubec, 4 p.
CZECHOSLOVAKIA, per, Vestnik Ceskoslovenske Akademie Ved, pp 428-431.
ACSI I-8898
ID 2204066065

The Hungarian Village and the Great Agricultural Exploitation, by George Enyedi, 15 pp.
FRENCH, per, Annales de Geographie, pp 687-700.
DIA LN 85-66

The Development of the Rumanian Chemical Industry, 19 pp.
FRENCH, per, L'Usine Nouvelle, Dec 1965, pp. 85, 87, 89, 91, 92.
JPRS 33924

Eastern Europe
Economic (Contd)

Current Report on the Danube Wallsee-Mitterkirchen Sluice Dam, by Hans Bretschneider, 7 pp.
GERMAN, rpt, pp 340-341.
DIA LN 63-66.

Economic Significance and Development of Danube Shipping, 49 pp.
GERMAN, rpt, Austrian Institute of Economic Research, December 1962, Vienna, Austria.
DIA LN 259-65

Some Data on Developments in Agriculture, 6 pp.
GERMAN, per, Bauern Echo, 31 Dec 1965, p. 3.
JPRS 33928

Scientific Council for "Economics of Post Office and Telecommunications Administration" Organized under Ministry of Post Office and Telecommunications, by Werner Siems, 5 pp.
GERMAN, per, Die Deutsche Post, No 1, Jan 1966, pp. 4-6.
JPRS 34249

Crop and Weather Report for the Period of 11 November - 10 December 1965, by D. Krumblegel, 6 pp.
GERMAN, per, Die Deutsche Landwirtschaft, No 1, Jan 1966, pp. 47-48.
JPRS 33977

Development of Catalyzers for the East German Oil-Cracking Installations, by Joachim Schmidt, 21 pp.
GERMAN, per, Energietechnik, Vol 16, No 1, Jan 1966, pp. 36-42.
JPRS 34267

Tasks of the Industrial Branch for Communications and Measuring Technology in the Economy, by F. Meier, 5 pp.
GERMAN, per, Der Fernmelde-Praktiker, No 1, Jan 1966, pp. 1-2
JPRS 34330

Law on the 1966 Economic Plan, 15 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part I, No 6, 3 Feb 1966, pp. 57-62
JPRS 34351

Eastern Europe
Economic (Contd)

Law on the 1966 State Budget, 15 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part I, No 6, 3 Feb 1966, pp. 63-68.
JPRS 34351

Rhine Shipping - A Main Problem of EWG Transportation Policies, by Hans-Herman Kolath.
GERMAN, per, Internationales Archiv fur Verkehrswesen, No 4, April 1965, pp 2-9.
DIA LN-178-65

Criteria for the Construction of New and the Adaptation of Existing Waterways in View of the Development of Inland Shipping, by Arthur Birkendahl, et al. 19 pp.
GERMAN, per, Internationales Archiv Fur Verkehrswesen, No 4, April 1965, pp 10-20.
DIA LN-178-65

The 1966 Tasks of the GDR Foodstuffs Industry, by E. Niedergesass, 5 pp.
GERMAN, per, Die Lebensmittelindustrie, Vol XIII, No 1, Jan 1966, pp. 3-4.
JPRS 34148

Status and Development Possibilities of the Raw Iron and Steel Production in the German Democratic Republic, by Karl-Friedrich Lude-mann, 27 pp.
GERMAN, per, Neue Hutte, Vol 10, No 12, Dec 1965, pp. 705-717.
JPRS 33950

Five Years of the Schwedt Oil Refinery, by Heinz Petersen, 5 pp.
GERMAN, per, Presse-Informationen, No 128 (2693), 12 Nov 1965, pp I - II.
JPRS 33930

Domestic Shipping on the GDR's Inland Waterways, by G. Schlieper, 5 pp.
GERMAN, per, Schiffbautechnik, Vol 15, No 12, Dec 1965, pp. 631-632.
JPRS 34148

Eastern Europe
Economic (Contd)

The Public Sanitation Service in Yugoslav Cities, by Janez Skusek, 6 pp.
GERMAN, per, Der Stadtetag, No 10, Oct 1965, pp 519-521.
DIA LN 5-66

What Are Poland's Plans for Its Inland Shipping, by Klemens Piotrowski, 6 pp.
GERMAN, per, Strom und See, April 1962, pp 108-110.
DIA LN 254-65

Good Fishing with New Ships, by Manfred Scheizel, 47 pp.
GERMAN, rpt, VEB Verlag fur Verkehrswesen, Berlin, 1960. 9699752
Dept of Navy/ONI Tr No 902

Status of Planning under the New Economic System, by Dr. Manfred Boettcher, 9 pp.
GERMAN, per, Die Wirtschaft, 2 Dec 1965, pp. 16-17.
JPRS 34088

New Economic and Management Methods in the Construction Industry, by Laszlo Nogradi, 6 pp.
HUNGARIAN, np, Figyelo, 12 Jan 1966, p. 3.
JPRS 34384

Domestic Trade Turnover during the Second Five-Year Plan, by Denes Kovacs, 10 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 12, Dec 1965, pp. 1489-1495.
JPRS 33931

Book on Past Mistakes in Economic Policy Draws Polemic Arguments, 19 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 1, Jan 1966, 93-97
JPRS 34351

Hungary's Trade with Developed Capitalist Countries, by Gabriella Hedri, 10 pp.
HUNGARIAN, per, Kozgazdasagi Szemle, No 1, Jan 1966, pp. 106-111.
JPRS 34383

Eastern Europe
Economic (Contd)

New Planning and Performance Rating Methods for River Cargo Transportaion, by Andor Szepe. 14 pp.
HUNGARIAN, per, Kozlekedestudomanyi Szemle No 11, Nov 1965, pp 481-487.
DIA LN 64-66

Bureau of Technical-Scientific Cooperation Aids Underdeveloped Countries, 7 pp.
HUNGARIAN, per, Kulkereskedelem, No 12, Dec 1965, pp. 355-357.
JPRS 33966

New Agricultural Producer Prices, 25 pp.
HUNGARIAN, per, Magyar Mezogazdasag, No 2, 12 Jan 1966, pp. 1-8.
JPRS 34042

The Development of Agriculture and the Standard of Living, by Deputy Prime Minister Lajos Feher, 7 pp.
HUNGARIAN, per, Magyar Mezogazdasag, No 2, 12 Jan 1966, pp. 3-4.
JPRS 34042

Tasks of Our Research Institutes in the Training of Specialists and Skilled Workers, by Tibor Erdey-Gruz, 6 pp.
HUNGARIAN, per, Magyar Tudomany, Vol LXXII, New Vol X, No 10, Oct 1965, pp. 623-627.
JPRS 34003

Implementation of the Decree Concerning the Inspection of Certain Forests and Turning Them over to Agriculture, 8 pp.
HUNGARIAN, per, Mazogazdasagi Ertesito, Vol 16, No 45, 10 Nov 1965, pp. 633-636.
JPRS 33977

Establishment of the Producer, Wholesale, and Consumer Prices of Seed Put on the Market by the Dressing Plants of the National Seed Growing and Distributing Enterprise, 21 pp.
HUNGARIAN, per, Mezogazdasagi Ertesito, No 4, 27 Jan 1966, pp. 147-159.
JPRS 34468

Eastern Europe
Economic (Contd)

Guiding Regulations for the Design and Construction of Bridges and Culverts to Safeguard the Interests of Water Management and Navigation, 23 pp.

HUNGARIAN, per, Vizugvi Ertesito, Vol 12, No 20, 11 Dec 1965, pp. 195-210.
JPRS 34338

Development of the Population's Money Income and Expenditures in 1965, by Laszlo Lengyel, 7 pp.

HUNGARIAN, per, Penzugyi Szemle, No 12, Dec 1965, pp. 1020-1025.
JPRS 33931

Prospects for the Development of the Salt Industry in Poland, by Stanislaw Leszczynski, 9 pp.

POLISH, per, Chemik, Vol 18, No 11-12, Nov-Dec 1965, pp. 398-400.
JPRS 34038

Industrial Electrothermics in Poland and the Prospects for Its Development, by Jozef Kawa, 17 pp.

POLISH, per, Chemik, Vol 18, No 11-12, Nov-Dec 1965, pp. 405-409.
JPRS 34038

Today and Tomorrow in Polish Petrochemistry, by K. Warszczak, 12 pp.

POLISH, per, Chemik, Vol 18, No 11-12, Nov-Dec 1965, pp. 420-423.
JPRS 34038

Water Supply for Agriculture and Rural Areas, 5 pp.

POLISH, per, Dziennik Ustaw, No 51, 15 Dec 1965, pp. 413-414.
JPRS 34038

1966 Draft Plans and Budget for Education, by Wladyslaw Ozga, 8 pp.

POLISH, per, Glos Nauczycielski, No 49, 5 Dec 1965, pp. 1, 4, 5.
JPRS 33852

Achievements and Plans of the Polish Teachers' Union, by Marian Walczak, 12 pp.

POLISH, per, Glos Nauczycielski, No 1, 2 Jan 1966, pp. 4-5.
JPRS 33923

Eastern Europe
Economic (Contd)

The Rent Reform and Apartment Building Repairs, by Jerzy Majewski, 8 pp.

POLISH, per, Gospodarka i Administracja Terenowa, No 1, Jan 1966, pp. 21-23.
JPRS 34148

Evaluation of the Activity of the Meat Industry in 1961-1965 and Its Tasks for 1966-1970, by Bohdan Jarema, 11 pp.

POLISH, per, Gospodarka Miesna, Vol XVII, No 12, Dec 1965, pp. 1-7.
JPRS 33977

New Bases of Economic Analysis in the National Economy, by Andrzej Karpinski, 12 pp.

POLISH, per, Gospodarka Planowa, No 12, Dec 1965, pp. 5-11.
JPRS 34138

Personal Income and Expenditures during 1960-1965, by Zygmunt Sprycha, 14 pp.

POLISH, per, Gospodarka Planowa, No 12, Dec 1965, pp. 19-23.
JPRS 34138

Main Tasks of the 1966-1967 Investment Plan by Marian Bartnicki, 15 pp.

POLISH, per, Inwestycje i Budownictwo, No 12, Dec 1965, pp. 4-10.
JPRS 34237

1966 Tasks of the Construction and Building Materials Industry, by Michal Zubelewicz, 18 pp.

POLISH, per, Inwestycje i Budownictwo, No 12, Dec 1966, pp. 10-17.
JPRS 34249

Development of the Agriculture Machine and Tractor Construction Industry in Bulgaria 5 pp.

POLISH, per, Mechanizacja Rolnictwa, No 22, 16-30 Nov 1965, pp. 5-6, 10.
JPRS 34092

Specialization of Agricultural Machine and Tractor Industry in Bulgaria within Framework of CEMA, 9 pp.

POLISH, per, Mechanizacja Rolnictwa, No 22, 16-30 Nov 1965, pp. 7-10.
JPRS 34092

Eastern Europe
Economic (Contd)

Description of Agricultural Machines and Tractors Produced in Bulgaria, 6 pp.
POLISH, per, Mechanizacja Rolnictwa, No 22, 16-30 Nov 1965, pp. 14-15.
JPRS 34092

Agricultural Mechanization within Next Few Years, by Ludwik Puczek, 5 pp.
POLISH, per, Mechanizacja Rolnictwa, No 22, 16-30 Nov 1965, pp. 21-22.
JPRS 34092

The Export of Industrially Produced Consumers Goods, by Stanislaw Kuzinski, 14 pp.
POLISH, per, Nowe Drogi, Vol 20, No 2, Feb 1966, pp. 18-27.
JPRS 34383

Planned Development of the Sea Fish Industry of the Gdansk Voivodship in 1960 to 1980, by Boleslaw Kowalewski. 22 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12 (B), 1964, pp 241-262.
*CFSTI TT 66-57053

Economic Basis of Polish Sea Fisheries Development, by Stanislaw Laszczynski. 35 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12(B), 1964, pp 263-297.
*CFSTI TT 66-57054

Trawler Exploitation in the North Sea, by Brunon Noetzel. 31 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12(B), 1964, pp 335-365.
*CFSTI TT 66-57058

Variable Factors in the Production of Canned Sprats Influencing the Labour Output, by Zenon Ziemia.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. B, 1964, pp 39-53.
*CFSTI TT 66-57068

Economic Significance of Baltic Seaweed in Poland, by Andrzej Ropelewski. 7 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. C. 1964, pp 33-39.
*CFSTI TT 66-57062

Eastern Europe
Economic (Contd)

Frozen Fish as Raw Material for Fish Processing Industry (on the Basis of 1959 Data). 18 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. C. , 1964, pp 87-104.
*CFSTI TT 66-57069

Analysis of the Development of Sea Fish Consumption in Poland, by Boleslaw Kowalewski.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. C, 1964, pp 105-130. 26 p.
*CFSTI TT 66-57051

Statistics of Polish Fisheries 1961, by Krzysztof Kazmierski, 32 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. C. 1964, pp 149-180.
*CFSTI TT 66-57050

Achievements and Goals of Reed and Wicker Industry, by Andrzej Bonkowski, 12 pp.
POLISH, per, Przegląd Drobnej Wytworczosci, Vol XV, and 23-24, Dec 1965, pp. 27-31.
JPRS 34043

Polish Electric Power Industry in 1964, by Franciszek Brzozowski, 8 pp.
POLISH, per, Przegląd Elektrotechniczny, No 12, Dec 1965, pp. 490-492.
JPRS 34038

Status and Trends for the Development of the Sawmilling Industry, by Julian Kutyla, 20 pp.
POLISH, per, Przemysł Drzewny, No 12, Dec 1965, pp. 441-447.
JPRS 34042

Tasks of Forestry and Woodworking Industry in 1966-1967, by S. B., 10 pp.
POLISH, per, Przemysł Drzewny, No 12, Dec 1965, pp. 463-465.
JPRS 34042

Location of Food Industry in Poland, by Maria Korulska, 8 pp.
POLISH, per, Przemysł Spożywczy, Vol XIX, No 11, Nov 1965, pp. 5-12.
JPRS 34137

Eastern Europe
Economic (Contd)

Main Tasks of Small-Scale Industry in 1966-1970, by Włodzimierz Lechowicz, 10 pp.
POLISH, per, Rada Narodowa, No 4, 22 Jan 1966, pp. 3-6.
JPRS 34338

Planned Agricultural Developments in 1966, by Stanisław Markowski, 7 pp.
POLISH, per, Wies Wspolczesna, No 12, Dec 1965, pp. 122-126.
JPRS 34042

The Fuel-Power Base for 1966-1970, by Wiesław Szyndler-Głowacki, 10 pp.
POLISH, per, Zycie Gospodarcze, Vol 21, No 5, 30 Jan 1966, pp. 1-2.
JPRS 34267

Chemical Industry Goals for 1966-1970, by Władysław Dudziński, 11 pp.
POLISH, per, Zycie Gospodarcze, Vol 21, No 6, 6 Feb 1966, pp. 1, 6.
JPRS 34330

Use of Mathematical Methods in Transportation, by Andrzej Sitkowski, 7 pp.
POLISH, per, Zycie Gospodarcze, No 7, 13 Feb 1966, p. 8.
JPRS 34384

Metallurgical Industry in the Period 1966-1970, by Krzysztof Krauss, 9 pp.
POLISH, np, Zycie Gospodarcze, No 9, 27 Feb 1966, pp. 1, 10.
JPRS 34506

Newly Elected Presidents and Senior Officers of Portuguese Corporations, 16 pp.
PORTUGUESE, np, Diario da Manhã, 3 Nov 1965.
JPRS 34105

Decree No 921 of the Council of State on the Establishment and Organization of the State Committee for the Direction and Control of Local Organs of State Administration, 8 pp.
RUMANIAN, per, Buletinul Oficial al Republicii Socialiste Romania, Vol 1, No 17, 15 Dec 1965, pp. 133-136.
JPRS 34328

Eastern Europe
Economic (Contd)

Decree on the Organization and Functions of the Ministry of Automobile, Water, and Air Transport, 5 pp.
RUMANIAN, per, Buletinul Oficial al Republicii Socialiste Romania, Part I, No 18, 17 Dec 1965, pp. 139-140.
JPRS 34088

Regulation on the Functioning of the Grand National Assembly, 16 pp.
RUMANIAN, per, Buletinul Oficial al Republicii Socialiste Romania, Vol 1, No 22, 24 Dec 1965, pp. 188-194.
JPRS 34328

Measures Taken in the Bucharest Network for Covering the Rapid Growth of Electric Power Consumption, by M. Constantinescu, M. Kleinerman, G. Manolescu, W. Schapira and A. Spinu, 12 pp.
RUMANIAN, per, Energetica, Vol 13, No 11, Nov 1965, pp. 561-566.
JPRS 34267

Reserves for the Growth of Economic Effectiveness of Investments, by I. L. Ciolan, 10 pp.
RUMANIAN, per, Evidenta Contabila, No 10, Oct 1965, pp. 3-12.
JPRS 34028

Financial Aspects of Improved Output Quality in the Machine-Building Industry, by V. M. Popescu, 12 pp.
RUMANIAN, per, Finante si credit, No 11, Nov 1965, pp. 8-18.
JPRS 33930

Use of Budgetary Allocations to Maintain and Repair National Highways, by Mihai Popiuc, 9 pp.
RUMANIAN, per, Finante si credit, No 11, Nov 1965, pp. 19-26.
JPRS 34043

Aspects of the Utilization of the Fund for the Introduction of Technology Into the Light Industry, by V. Calomfirescu, 12 pp.
RUMANIAN, per, Finante si Credit, No 12, Dec 1965, pp. 12-20.
JPRS 34338

Eastern Europe
Economic (Contd)

Achievement of State Income As An Efficient Lever for Bank Control, by Gheorghe Capeti, 5 pp.
RUMANIAN, np, Gazeta Finantelor, 24 Nov 1965, pp. 1 and 9a.
JPRS 34028

The Role of Design In Development of Rumania's Wood Processing Industry in the Five Year Plan and Six Year Plan Periods, by N. H. Ionescu, 7 pp.
RUMANIAN, per, Industria lemnului, Vol 16, No 10, Oct 1965, pp. 361-363.
JPRS 34338

Activities of the Institute of Food Research, by Tudor D. Ionescu, Constantin Nicolau, C. Toma, Gh. Chintescu, Ecaterina Meleghe and Alice Hobincu, 6 pp.
RUMANIAN, per, Munca, No 5661, 21 Jan 1966, p. 3.
JPRS 34505

Thoughts on the Present-Day Rumanian Social Structure, by Fl. Balaure, 16 pp.
RUMANIAN, per, Probleme economice, Vol 18, No 12, Dec 1965, pp. 3-15.
JPRS 34235

Income to the Population from Social Consumption Funds, by V. Iordache, 13 pp.
RUMANIAN, per, Probleme economice, Vol 18, No 12, Dec 1965, pp. 16-29.
JPRS 34237

Concentration of Production in Rumanian Agricultural Units, by Gh. Vladica and N. Velicu, 14 pp.
RUMANIAN, per, Probleme economice, Vol 18, No 12, Dec 1965, pp. 30-43.
JPRS 34265

Strengthened Collaboration between Industry and Foreign Trade Towards Fulfillment of Export Tasks, by Al. Craciun. Gh. Pozderie and I. Olteanu, 9 pp.
RUMANIAN, per, Probleme economice, Vol 18, No 12, 1965, pp. 72-82.
JPRS 34236

Eastern Europe
Economic (Contd)

Fifteen Years of Construction Research, by Dr. Dan F. Dumitrescu, 15 pp.
RUMANIAN, per, Revista constructiilor si a materialelor de constructii, No 8-9, Aug-Sept 1965, pp. 393-397.
JPRS 34338

Technical and Economic Indices of the Six-Year and Long-Term Plans in Ministry of Mining Units, by Gh. Apostol, N. Bogdan and I. Popescu, 17 pp.
RUMANIAN, per, Revista Minelor, No 10, Oct 1965, pp. 401-408.
JPRS 34267

Development and Consolidation of Machine and Tractor Stations, by M. Bulgaru and M. Rozen, 15 pp.
RUMANIAN, per, Revista de statistica, Vol 14, No 11, Nov 1965, pp. 14-25.
JPRS 34042

Achievements under the Six-Year Plan and Tasks for the New Five-Year Plan in the Field of Mechanization of Forestry Work, by A. Andrei, 7 pp.
RUMANIAN, per, Revista Padurilor, No 10, Oct 1965, pp. 507-509.
JPRS 33928

Steel As a Barometer of Economic Potential, by N. Rusu, R. Miclea, M. Murgulet, and I. Tripsa, 6 pp.
RUMANIAN, per, Stiinta si Tehnica, No 1, Jan 1966, pp. 2-5.
JPRS 34506

Petroleum Drilling At a Lower Cost, by V. Boescu and L. Tintea, 12 pp.
RUMANIAN, per, Viata Economica, No 51, 17 Dec 1965, pp. 4-5, 8.
JPRS 33924

Rumanian Industry at the Start of the Five-Year Plan. Complete Utilisation of Production Capacity in the Chemical Industry, by I. Deleanu, 7 pp.
RUMANIAN, per, Viata Economica, 31 Dec 1965, pp. 4-5.
JPRS 34101

Eastern Europe
Economic (Contd)

The Petroleum Industry in the Five-Year Plan, by Alexandru Boaba, 5 pp.
HUMANIAN, per, Viata economica, No 3, 21 Jan 1966, p. 5.
JPRS 34038

Agricultural Science and Developmental Requirements of the National Economy, by N. Giosan, 5 pp.
HUMANIAN, per, Viata Economica, Vol 4, No 1, 7 Jan 66, pp. 1, 7.
JPRS 34092

Problems Relating to Distribution of Personal Incomes in Agricultural Cooperatives, 11 pp.
SERBIAN, per, Glasnik za Poljoprivredu i Zadrugarstvo, No 1, Jan 1966, pp. 3-10.
JPRS 34265

Possibilities for Increasing Exports of Agricultural Products, by Stevan Silbiger, 11 pp.
SERBIAN, per, Glasnik za Poljoprivredu i Zadrugarstvo, No 1, Jan 1966, pp. 12-20.
JPRS 34265

The Market in the Conditions of the Economic Reform, by Dusan Cehovin, 8 pp.
SERBIAN, per, Nova Trgovina, No 12, Dec 1965, pp. 475-478.
JPRS 34338

Yugoslav Foreign Trade in 1965, by Ratko Filipovic, 6 pp.
SERBIAN, per, Privredni Pregled, 1 Jan 1966, p. 11.
JPRS 34025

Survey of the Electric Power Balance and of Electric Power Facilities Put Into Operation in 1965, by A. Cvetanovic, 6 pp.
SERBIAN, per, Vesnik Jugoslovenske Investicione Banke, Oct 1965, pp. 13-16.
JPRS 34101

Integral Self-Management in the Yugoslav Economy, by Dr. Dimitrije Mistic, 23 pp.
SERBOCROATIAN, per, Ekonomist, No 3, Jul-Sept 1965, pp. 289-308.
JPRS 34028

Eastern Europe
Economic (Contd)

Some Problems in Yugoslav Planning, by Vidosav Trickovic, 8 pp.
SERBOCROATIAN, per, Ekonomist, No 3, Jul-Sept 1965, pp. 440-446.
JPRS 34028

Yugoslav Enterprises Cooperate in Transforming Desert into Fertile Land in the UAR, by Sergije Nonveiller, 17 pp.
CROATIAN, per, Gradjevinar, No 10, Oct 1965, pp. 383-392.
JPRS 33966

Yugoslav Railroads in International Commodity Trade, by Gvozden Sredio, 5 pp.
SERBOCROATIAN, per, Medjunarodni transport, No 10, Oct 1965, pp. 25-29.
JPRS 33940

Farm-Crop Production in Bulgaria, by Dr. Budimir Milojsic, 11 pp.
SERBOCROATIAN, per, Poljoprivreda, No 11, Nov 1965, pp. 45-52.
JPRS 33940

Significant Changes in Housing Policy in Yugoslavia, by Bozidar Popovic, 14 pp.
SERBIAN, per, Socijalna Politika, No 9-10, Sept-Oct 1965, pp. 866-878.
JPRS 34043

Utilization of Working Hours in the Yugoslav Economy, by Zarko Cika, 13 pp.
SERBIAN, per, Socijalna Politika, No 9-10, Sep-Oct 1965, pp. 879-888.
JPRS 34028

Prices, Living Costs, and Problems of Evaluating Personal Incomes after the Reform, by Miroslav Popovic, 9 pp.
SERBIAN, per, Socijalna Politika, No 9-10, Sept-Oct 1965, pp. 889-896.
JPRS 34028

Eastern Europe
Political

Criterion of Planning on the Basis of Progressive Experience Is a Revolutionary Criterion, by Peti Shamblli, 7 pp.
ALBANIAN, np, Zeri i Popullit, 20 Nov 1965, p. 2.
JPRS 34039

Bulgarian CP Organ Discusses Communist Movement in Advanced Capitalist Countries, by Dimitur Mitev, 13 pp.
BULGARIAN, per, Partien zhivot, No 18, Dec 1965, pp. 77-83.
JPRS 34361

Bulgarian CP Organ Comments on Growth of International Communist Movement, by P. Petrov, 8 pp.
BULGARIAN, np, Rabotnicheskio delo, 21 Jan 1966, pp. 3 and 4.
JPRS 34102

Short-Haul Traffic in Nordrhein-Westfalen, by Hans Hermesen, 5 pp.
GERMAN, per, Flugwelt International, No 7, July 1965, pp 612-613.
DIA LN 185-65

Law on the Deutsche Notenbank, 6 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part I, No 2, 3 Jan 1966, pp. 25-28.
JPRS 34207

Review of Adam Schaff's Marxism and the Human Individual in Warsaw Periodical, 17 pp.
POLISH, per, Kultura i Spoleczenstwo, Vol IX, No 4, Oct-Dec 1965, pp. 123-132.
JPRS 34361

Federal Executive Council and Officials of Federal Administrations, Organs, and Institutions, 11 pp.
SERBOCROATIAN, per, Jugoslovenski Pregled, No 9, Sept 1965, pp. 296-298.
JPRS 34253

Eastern Europe
Military

Yugoslav National Army Law Amended, 7 pp.
CROATIAN, per, Sluzbeni list SFRJ, No 57, 30 Dec 1965, pp. 1881-1883.
JPRS 34240

Chemical Weapons and Antichemical Defense Means.
CZECH, rpt, Chemicke Zbrane a Prostredky Protichemicke Ochrany, pp 17-28.
*ACSI I-9532
ID 2204020066

Maritime Administration,
CZECH, rpt, Sluzbeni List, 3 Nov-1 Dec 1965, Nos 48,49,53.
DIA 5904001066

Air Defense,
CZECH, per, Vazduhoplovni Glasnik, No 5, 1965.
DIA 1904001566

Annual Report of the Soviet Bloc Navies and Merchant Marine.
GERMAN, rpt, 104 pp. 9699742-V
Dept of Navy/ONI Tr No 934

Equipment for Decontaminating and Deactivating of Weapons, Equipment and Care, by W. Blumenstein.
GERMAN, bk, Entgiftungs-und Entaktivierungsgerate, 1965.
ACSI -8488
ID 2218288765

A Decade of Training, by Rolf Christ, 11 pp.
GERMAN, per, Flugwelt International, No 6, June 1965, pp 494-497.
DIA LN 184-65

Revision of the GDR Decree Concerning Active Duty in the National People's Army (Service Career Order) 15 pp.
GERMAN, per, Gesetzblatt der Deutschen Demokratischen Republik, Part I, No 4, 1 Feb 1966, pp. 45-51.
JPRS 34279

Eastern Europe
Military(Contd)

Invisible Light - Night Vision, Klaus Junge.
GERMAN, bk, IR Technology in the Military
Service Deutscher Militarverlag, Berlin,
1961, 98 pp. (66 illustrations & 4 tables)
9699712-V
Dept of Navy/ONI Tr No 1047

Integrated Logistics, by Gustav-Adolf
Guse, 41 pp.
GERMAN, per, Luftwaffe, No 12, 1965.
DIA LN 2-66

The German Air Force Service Regiment,
by Gerhard Baumbert, 41 pp.
GERMAN, per, Luftwaffe, No 12, 1965,
DIA LN 2-66

Some of the Responsibilities of a
German Air Force Heavy Maintenance
and Depot Regiment, by Ernst Battmer,
41 pp.
GERMAN, per, Luftwaffe, No 12, Dec 1965,
DIA LN 2-66

To Preserve Combat Efficiency, by
Max Trautmann, 41 pp.
GERMAN, per, Luftwaffe, No 12, Dec 1965,
pp 989-1006.
DIA LN 2-66

The Mirage in its Ordeal by Fire, by
Ernst Saxer, 7 pp.
GERMAN, per, Schweizer Illustrierte,
No 43, 18 Oct 1965, pp 49-51; 54, 56.
DIA LN 301-65

Anti-Aircraft Weapons Employment in the
Defense, by H. Von Dach 11 pp.
GERMAN, per, Der Schweizer Soldat,
30 Sept 1965, pp 78-81.
DIA LN 13-66.

Eastern Europe
Military (Contd)

V1 and V2 the History of a Weapon,
by Wolf Laukamm, 19 pp.
GERMAN, per, Soldat und Technik, Sep 1964,
pp 509-513. 9699672
Dept of Navy/ONI Tr No 2002

Repairs and Maintenance of Tanks and
Armored Personnel Carriers Under Combat
Conditions, 20 pp.
GERMAN, per, Truppendienst, No 1, 1964,
pp 66-70.
ACSI I-7866
ID 2204038965

The Control Exercise for the Observation
Squad of an Artillery Battery,
by Major Lygmunt Czarnota, 10 pp.
POLISH, per, Przegląd Wojsk Ladowych,
No 1, 1965.
DIA LN 295 E (2)
ID 2878019365

A Control Exercise of the Role
of an Artillery Battery's Observation
Squad, 11 pp.
POLISH, per, Przegląd Wojsk Ladowych,
No 1, 1965.
DIA LN 295 E (2)
ID 2878019365

The Reconnaissance of Barriers at Water
Obstacles, by Zdzislaw Mydlowski. 10 pp.
POLISH, per, Przegląd Wojsk Ladowych,
No 1, 1965.
DIA LN 295 E (2)
ID 2878019365

Artillery Battery Headquarters in
Defensive Operations, by Zygmunt Czarnota,
15 pp.
POLISH, per, Przegląd Wojsk Ladowych,
No 4, 1965.
DIA LN 282-65
ID 2878043165-V

Eastern Europe
Military (Contd)

Basic Tactical Training Methods for an Infantry Platoon, by Marian Wajda, 6 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, 1965.
DIA LN 282-65
ID 2878043165-V

A Reinforced Tank Company as a Detached Unit, by Jerzy Gutaker, 9 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, 1965.
DIA LN 282-65
ID 2878043165-V

On the Camouflage of Troops, by Szymon Lipkowski, 10 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, 1965.
DIA LN 282-65
ID 2878043165-V

The Defense of Sub-Units in Mobile Forms of Combat, by Stanisław Masiarczyk, 14 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, 1965.
DIA LN 282-65
ID 2878043165-V

On Security of Troops in Combat Operations, by Romuald Szulewski.
POLISH, per, Przegląd Wojsk Lądowych, No 4, April 1965.
DIA LN 282-65
ID 2878043165-V

One of the Methods of Verifying the Results of Tactical Training, by Mieczysław Rowinski, 12 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, April 1965.
DIA LN 282-65
ID 2878043165-V

Self-Propelled Guns, Armored Carriers, and Special-Purpose Armored Vehicles, by G. Teodorescu, V. Parizescu, et al. 24 pp.
RUMANIAN, rpt, Tancul [The Tank] Chap IV, pp 189-228.
ACSI I-9254
ID 2204009466

Eastern Europe
Sociological

Contradictions and Shortcomings in Novel Ditet E Gjelbra (The Green Days) Revealed, by Vasil Melo and Zef Ashta, 5 pp.
ALBANIAN, np, Zeri i Rinise, 15 Jan 1966, pp. 2 and 4.
JPRS 34329

The Development of the Productive Forces and Public Education, by Todor Avramov, 9 pp.
BULGARIAN, per, Narodna prosveta, No 11, Nov 1965, pp. 7-13.
JPRS 33852

The Dynamics and Territorial Distribution of the Mechanical Increase of the Population in Bulgaria for 1961-1964, by Mitko Rusinov, 13 pp.
BULGARIAN, per, Planovo stopanstvo i statistika, No 9, Oct 1965, pp. 24-34.
JPRS 33923

New Hungarian Doctors and Candidates, 8 pp.
HUNGARIAN, per, Magyar Tudomány, Vol LXXII, New Vol X, No 9, Sept 1965, pp. 609-613.
JPRS 34155

The Importance of Cybernetic Methods in the Field of Linguistics, by Ferenc Papp, 14 pp.
HUNGARIAN, per, Magyar Tudomány, Vol LXXII, New Vol X, No 11, Nov 1965, pp. 704-714.
JPRS 34013

Functions of Trade Unions in Socialist States and Prospects for Their Development, by Dr. Lech Gilejko, 9 pp.
POLISH, per, Przegląd Związkowy, No 12, Dec 1965, pp. 9-11.
JPRS 34024

Present Footwear Situation in Poland, by Zbigniew Wyczasny, 5 pp.
POLISH, per, Zycie Gospodarcze, No 7, 13 Feb 1966, pp. 1-2.
JPRS 34384

Significance of March Census Explained, by G. Retegan, 7 pp.
RUMANIAN, per, Contemporarul, No 4 (1007), 28 Jan 1966, pp. 1 and 9.
JPRS 34235

Eastern Europe
Sociological (Contd)

The Growth of Monetary Savings As An Expression of the Rising Standard of Living, by M. Popovici, 10 pp.
HUMANIAN, per, Finante si Credit, No 12, Dec 1965, pp. 3-11.
JPRS 34351

Effect of Measures Raising the Salaries of Workers, by S. Taigar, 6 pp.
HUMANIAN, per, Munca, 30 Dec 1965, pp. 1, 3.
JPRS 34024

Plans for the Expansion of Medical Assistance during 1966, 7 pp.
HUMANIAN, per, Muncitorul sanitar, 8 Jan 1966, pp. 1-2.
JPRS 34024

Health Education in Vocational Schools, by Dr. G. E. Solcanescu, 9 pp.
HUMANIAN, per, Revista invatamintului profesional si tennic, No 6, Nov-Dec 1965, pp. 55-60.
JPRS 34235

The 1966 Populational and Residential Census, by Prof. Mircea Biji, 7 pp.
HUMANIAN, per, Revista de statistica, Vol 14, No 11, Nov 1965, pp. 3-9.
JPRS 34024

Crime in Slovenia in 1964, by Dimitrij Ivanov, 26 pp.
Slovenian, per, Revija za kriminalistiko in kriminologijo, No 2-3, June-Sept 1965, pp. 72-80.
JPRS 33998

Biographic

Tribute to Eduard Imhof on his 70th Birthday, by Von Edgar Lehmann, 16 pp.
GERMAN, per, Kartographische Nachrichten, Vol 1, Feb 1965, pp 1-9.
ACSI I-8637
ID 2204057265

WESTERN EUROPE

Economic

Report on Compatibility Tests Between American and French Telephone Multiplex Systems.
FRENCH, rpt, Compt-Rendu des Essais d-Opposabilite entre Multiplex Telephoniques Americains et Francais, 10 Nov 1965,
*ACSI I-9572
ID 2204020266

Automation of Vessels and Organization of Work Aboard Ship,
FRENCH, per, Journal de la Marine Marchande, 6 Jan, 1966.
Dept of Comm
Maritime Administration

Public Health and Population,
by N'Dia Koffi Blaise.
FRENCH, rpt, Sante Publique et Population 19 November 1965.
DIA LN 65-66
ID 2851026565

On the Use of the Monte Carlo Method to Solve Problems of Interpolation,
by G. Cortellezza, G. Farchi.
ITALIAN, rpt, Sull'uso Del Metodo di Montecarlo per Risolvere i Problemi di Interpolazione, Iss/65/10. 1965.
*AEC ORNL-Tr-1100
EDC Mar 10, 1966

Current Civil Aviation News,
NORWEGIAN, nps, Aftenposten and Morgenposten, 17 Jan-22 Feb 66.
DIA 1272004666

Western Europe
Political

Book Comparing Karl Marx and Soeren Kierkegaard Reviewed in Danish Communist Organ, by Johannes Gladvind, 9 pp.
DANISH, np, Land og Folk, 12/13 Jan 1966, p. 7.
JPRS 33932

The Declaration Issued by the Danish CP In Advance of Its 1965 Congress, 15 pp.
DANISH, np, Land og Folk, 13 Apr 1965.
JPRS 34016

Article in CP Organ Defends Danish CP Congress, by Ib Norlund, 6 pp.
DANISH, np, Land og Folk, 21 Jan 1966, p. 7.
JPRS 34130

French Pro-Chinese Monthly Discusses "Failure" of Rochet and "True" Communist Program, by Henri Pezerat and Marc el Debelley, 5 pp.
FRENCH, per, Le Communiste, No 115, Jan 1966, pp. 2,3.
JPRS 34361

The NOWEA (Nordwestduetsche Ausstellungs- und-Messe-gesellschaft) gives Brussels the Go-sign for Interpack 1966, 2 p.
FRENCH, per, Emballages, No 231, Nov 1965, pp 233, 240.
*ACSI I-9413
ID 2204017666

Paris Journal Views Italian CP on Eve of XI Congress, by Rocco Astori, 7 pp.
FRENCH, per, Est et Ouest, Vol 18, No 354, 1-15 Jan 1966, pp. 9-11.
JPRS 34016

Jesuit View of Communist-Catholic Rapprochement in Italy, by Georges Jarlot, 17 pp.
FRENCH, per, Etudes, Vol 324, Jan 1966, pp. 32-46.
JPRS 34016

Paris CP Weekly Analyzes Divergences of Chinese Leaders, by Georges Girard, 5 pp.
FRENCH, per, France Nouvelle, No 1054, 29 Dec 1965-4 Jan 1966, pages 14-15.
JPRS 33932

Western Europe
Political (Contd)

Resolution Adopted by French Communist Party, 6 pp.
FRENCH, np, France Nouvelle, No 1055, 5-11 Jan 1966, p. 6.
JPRS 34016

French CP Organ Interviews German CP Delegation, by Leo Monbouyran and Charles Haroche, 5 pp.
FRENCH, per, France Nouvelle, No 1060, 9 Feb 1966, pp. 17-18.
JPRS 34361

Closing Address of Waldex Rochet at Meeting of the Saint-Ouen Central Committee - Coalition of the Left Can Win France, by Waldek Rochet, 19 pp.
FRENCH, np, L'Humanite, 6 Jan 1966, pp. 5-6.
JPRS 33932

French Communist Eyewitness Report on North Vietnam War Effort, by Jean-Emile Vidal, 53 pp.
FRENCH, per, L'Humanite, 11, 12, 13, 14, 18, 19, 20, and 21 Jan 1966.
JPRS 34114

Marxist-Leninist Group Discusses "Organizational Degeneration" of French CP, 6 pp.
FRENCH, per, L'Humanite Nouvelle, Vol 2, No 14, Feb 1966, p. 13.
JPRS 34306

Increased Interest and Activity Noted in XIV Finnish Communist Party Congress, by Taisto Sinisalo, 6 pp.
FINNISH, per, Kansan Uutiset, 31 Jan 1966, p. 4.
JPRS 34361

Proceedings of Finnish Communist Party Congress, 8 pp.
FINNISH, np, Kansan Uutiset, 31 Jan 1966, pp. 4 & 5.
JPRS 34361

Summaries of Selected Speeches at Finnish Communist Party Congress, 5 pp.
FINNISH, np, Kansan Uutiset, 1 Feb 1966, pp. 8 & 9.
JPRS 34361

Western Europe
Political (Contd)

Jarne Penanen Comments on Results of Elections in Finnish Communist Periodical, 8 pp.
FINNISH, per, Tilanne, No 1, (34), Feb 1965, pp. 18-24.
JPRS 34361

French Unified Socialist Party Organ Compares French and Italian CP's and Efforts at Unity, 5 pp.
FRENCH, per, Tribune Socialiste, No 272, 5 Feb 1966, p. 10.
JPRS 34361

French Newspaper Discusses Problems Facing XI Congress of Italian CP, by Jacques Nobecourt, 5 pp.
FRENCH, np, Le Monde, 25 Jan 1966, p. 8.
JPRS 34102

Article in Paris Marxist Review Discusses Revisionism and Imperialism, by Pierre Jalee, 21 pp.
FRENCH, per, Partisans, Nos. 24 and 25, Dec 1965 and Jan 1966, pp. 11-18 and 14-20.
JPRS 34102

Santi-Amendola Discussion on Democracy in a Workers' Party, 5 pp.
ITALIAN, per, L'Astrolabio, Vol III, No 20, 2 Dec 1965, pp. 9-11.
JPRS 34016

Amendola's Reply, 7 pp.
ITALIAN, per, L'Astrolabio, Vol III, No 21, 12 Dec 1965, pp. 8-11.
JPRS 34016

Giovanni Mosca's Report at the General Council of the CGIL, by Giovanni Mosca, 16 pp.
ITALIAN, np, Avanti, 28 Jan 1966, p. 8.
JPRS 34195

Occhetto Speaks on Amendola, Santi and Democratic Centralism, by Achille Occhetto, 6 pp.
ITALIAN, per, La Citta Futura, No 15, Dec 1965, pp. 2-4.
JPRS 33932

Western Europe
Political (Contd)

Italian Social Democratic Review Discusses Problems of Socialist and Democratic Socialist Unity, by Marco Cesarini-Sforza, 5 pp.
ITALIAN, per, Corrispondenza Socialista, Vol 6, No 12, Dec 1965, pp. 594-596.
JPRS 34102

Anti-Communist Italian Socialist Magazine Discusses Situation of Colombian CP, by Luca G. Montenovo, 9 pp.
ITALIAN, per, Corrispondenza Socialista, No 12, Dec 1965, pp. 608-613.
JPRS 34016

Left Wingers Criticize PSIUP Congress, by Livio Maitan, 5 pp.
ITALIAN, np, IV Internazionale, Vol 2, No 22, 25 Dec 1965, pp. 1-4.
JPRS 33932

Excerpt from Text of Agostino Novella's Contribution to the 11 January CGIL Press Conference, 7 pp.
ITALIAN, per, Rassegna Sindacale, No 78, 16 Jan 1966, pp. 5-8.
JPRS 34130

Italian CP Magazine Discusses Struggle for Coexistence, by Maurizio Ferrara, 6 pp.
ITALIAN, per, Rinascita, No 3, 15 Dec 1965, pp. 7-8.
JPRS 34016

Italian CP Magazine Discusses the Intellectual and the Party, by Luigi Nono, 5 pp.
ITALIAN, per, Rinascita, No 3, 15 Dec 1965, p. 8.
JPRS 34016

Rinascita Article on Marxism and Social Sciences, by Cesare Luporini, 9 pp.
ITALIAN, per, Rinascita, No 12, 25 Dec 1965, pp. 1, 3-5.
JPRS 33932

Della Volpe on Ideology, Sociology and Science of Man, by Galvano della Volpe, 5 pp.
ITALIAN, per, Rinascita, No 12, 25 Dec 1965, pp. 5-6.
JPRS 33932

Western Europe
Political (Contd)

Italian CP Organ Discusses Togliatti and the Party, by Alessandro Natta, 16 pp.
ITALIAN, per, Rinascita, Vol 23, No 4, 22 Jan 1966, pp. 3-6.
JPRS 34157

Luciano Gruppi Speaks on Marxism and Historicism, by Luciano Gruppi, 7 pp.
ITALIAN, np, Rinascita, Vol 23, No 2, 8 Jan 1966, pp. 18-19.
JPRS 33932

Renato Guttuso Speaks on "Communist Cultural Campaign", by Renato Guttuso, 15 pp.
ITALIAN, per, Rinascita, Vol 23, No 4, 22 Jan 1966, pp. 35-37.
JPRS 34157

Rossana Rossanda Discusses a Political Program for Culture, by Rossana Rossanda, 7 pp.
ITALIAN, per, Rinascita, Vol 23, No 4, 22 Jan 1966, pp. 37-38.
JPRS 34157

Rinascita Comments on Congress of Social Proletarians, by Renzo Lapicciarella, 5 pp.
ITALIAN, per, Rinascita, No 51, 25 Dec 1965, p. 5.
JPRS 34016

Rinascita Discusses New Program for the Left by Pietro Ingrao, 7 pp.
ITALIAN, per, Rinascita, No 51, 25 Dec 1965, pp. 6-7.
JPRS 34016

L'Unita Explains Reasons for Criticism of Chinese Theses, by Giuseppe Boffa, 6 pp.
ITALIAN, np, L'Unita, 2 Jan 1966, p. 14.
JPRS 33932

Longo's Replies to Foreign Press's Questions about Eleventh PCI Congress, by Luigi Longo, 10 pp.
ITALIAN, np, L'Unita, 22 Jan 1966, pp. 1 and 3.
JPRS 34102

Western Europe
Political (Contd)

Coexistence and the Struggle for Socialism, by Marizio Tiriticco, 6 pp.
ITALIAN, np, L'Unita, 24 Jan 1966, p. 6.
JPRS 34102

The Lessons from the Seventh Congress of the Comintern, by Hans I. Kleven, 11 pp.
NORWEGIAN, np, Friheten, 21, 22, 23 Oct 1965.
JPRS 34346

Dimitrov's Speech at the Seventh Congress Analyzed, by Martin Gunnar Knutsen, 5 pp.
NORWEGIAN, np, Friheten, 8 Nov 1965, pp. 4-5, 6, 7.
JPRS 34346

Kleven Replies to Further Criticism, by Hans I. Kleven, 9 pp.
NORWEGIAN, np, Friheten, 9 Nov 1965, pp. 4-5, 7.
JPRS 34346

Kleven Calls for Cooperation among the Leftist Forces, by Hans I. Kleven, 6 pp.
NORWEGIAN, np, Friheten, 1 Dec 1965, pp. 4-5, 6.
JPRS 34346

Opposition to Cooperation with Social Democrats is "Sectarianism", by Arnold Moe, 5 pp.
NORWEGIAN, np, Friheten, 13 Jan 1966, pp. 4-5, 6-7.
JPRS 34346

Pravda Views Finnish CP On Eve of Congress, by S. Smirnov, 6 pp.
RUSSIAN, np, Pravda, 25 Jan 1966, p. 5.
JPRS 34306

Dissension Shown in Two Swedish CP Conferences, 5 pp.
SWEDISH, per, Marxistiskt Forum, No 3, pp. 4, 33, 34.
JPRS 34306

Western Europe
Political (Contd)

Marxist Journal Severely Criticizes Book by the Chairman of the Swedish Communist Party, 5 pp.
SWEDISH, per, Marxistiskt Forum, No 3, 1965, pp. 19-22.
JPRS 34306

Marxist Forum Presents Critical View of Proposed New Statutes of the Swedish Communist Party, by Lars Hedman, 5 pp.
SWEDISH, per, Marxistiskt Forum, No 3, 1965, pp. 23, 24, 32, 34.
JPRS 34306

Outline of Program Theses at Democratic Youth Congress, by P. O. Zennstrom, 7 pp.
SWEDISH, per, Ny Dag, No 2, 14-20 Jan 1966, pp. 6, 7.
JPRS 34016

Military

ABC Directive for all Services.
B.-Defense,
DANISH, rpt, ABC-Tjeneste for Alle Vaern. B. Forsvar. October 1961, Jaegersborg.
ACSI I-9210 B
ID 2214021365

Proposed ABC-Defense For All Services.
B-Defense. June 1961.
DANISH, rpt, Forslag til ABC-Tjeneste for Alle Vaern. B-Forsvar, Juni 1961.
June 1961.
ACSI I-9210 A
ID 2214021365

105 mm Motorized Howitzer With Turret Study and Prototype,
FRENCH, per, L'Armee February 1962, No 17, pp 87-89.
ACSI I-9516
ID 2204019566

Western Europe
Military (Contd)

Guerrilla Tactics, by L. T. Menard.
FRENCH, per, L'Armee, No 49, Jun-Jul 1965, pp 8-19.
*ACSI I-9483-A
ID 2204018066

Experimental Determination of Density with the Induction Gun using the Stark Broadening of the D Line,
by Jean Jacquinet, 27 pp.
FRENCH, rpt, Association Euratom CEA Report R 2701 Groupe de Recherches sur la Fusion controlee Centre d'Etudes Nucleaires de Fontenay-Aux-Roses. 9699681
Dept of Navy/ONI Tr No 2027

Letter of Congratulations to General Bley, by P. Messmer, 9 pp.
FRENCH, per, Freres D'armes, No 16, Aug - Sept 1965.
DIA LN 11-66
ID 2832020265

Witness Account of a Parachutist of the 8e RPIMA,
FRENCH, per, Freres d'Armes, No 16, Aug-Sept 1965, pp 5-9.
DIA LN 11-66 A
ID 2832020265

Witness Account of a Crew of the 11th Division Galdiv.
FRENCH, per, Freres d'Armes, No 16, Aug-Sept 1965, pp 10-11.
DIA LN 11-66 B
ID 2832020265

Twin-Barrel Turret DCA, 30 mm Hispano Suiza, With Servo-Sight SV2, on light Tank Model 51, Description, Automatic AA/Infantry 30 mm gun, Hispano Suiza, Model 831, 31pp.
FRENCH, rpt, Tourelle Bitube DCA 30 mm Hispano Suiza Avec Servo-Visueur SV2 Sur char Leger Mod. 51; Description Canon Automatique Antiaerien/Infanterie 30 mm Hispano Suiza, Type 831.
No 287, 1958.
ACSI I-9361
ID 2204015466

Does Increased Mine Production Guarantee Profitability?, 5 pp.
FRENCH, np, Maer, 2/3 Jan 1966, pp. 3, 11.
JPRS 33948

Western Europe
Military (Contd)

General Description, 30-mm Quadruple-Gun
AA Battery, Hispano Suiza/Contraves, 46 p.
GERMAN, rpt, Allgemeine Beschreibung - 30
mm Vierlings-Geschutze Flab.-Btr. Hispano
Suiza/Contraves, pp 1-46.
*ACSI I-9362-A
ID 2204015566

Computation of Prospective Favorable Firing
Results, Hispano Suiza 30 mm Quadruple Bat-
tery, 11 p.
GERMAN, rpt, Berechnung der Erfolgsaussichten
fur die 30 mm Vierlingsbatterie Hispano Suiza,
*ACSI I-9362-B
ID 2204015566

The Hispano Suiza 30 mm AA Battery - A New
Conception of Medium-Caliber AA, 28 p.
GERMAN, rpt, Die 30 mm Flabbateri e Hispano
Suiza - eine neue Konzeption der Mittelkaliber -
Flab, pp 1-28.
*ACSI I-9362-C
ID 2204015566

Swiss Serviceman's Pocket Guide,
GERMAN, rpt, Taschenbuch fur
Schweizerische Wehrmannen, 1965,
Frauenfeld, Switzerland.
DIA LN 89-66
ID 2893003465

Description of NETTUNO Guided Missile System,
10 pp.
ITALIAN, per, Contraves Italiana. 9699444
Dept of Navy/ONI Tr No 1099

Scandinavian Defense Union Debate,
by Nils Orvik.
NORWEGIAN, rpt, Oslo, Norway, 27 Dec 1965.
DIA 1872000266

Disabilities Governing Status of
Armed Forces Personnel.
PORTUGUESE, rpt, 7 January 1966.
DIA 2879005966

Western Europe
Military (Contd)

Subversive Warfare-Elements for a
Strategy of Retaliation,
by Hermes de Araujo Oliveira. 25 pp.
PORTUGUESE, per, Revista Militar,
November, 1964, pp 663-694.
ACSI I-6871-A
ID 2204012365

Air Transport in the Angola Military
Operation, by Amadeu Ferreira,
15 pp.
PORTUGUESE, per, Revista Militar,
January, 1965, pp 31-47.
ACSI I-6871 B
ID 2204012365

Geographic

Water Masses of the Adriatic Sea,
Mira Zore-Armanda, 88 pp.
FRENCH, per, Acta Adriatica Inst Za Oceano-
grafiju I Ribarstvo Split, SFR Jugoslaviya,
Vol X, No 3, 1963.
Dept of Navy Tr 4542/ONI Tr 2119

French Austral and Antarctic Lands,
by Pierre Rolland, 59 pp.
FRENCH, rpt, the Minister of State in Charge
of Overseas Departments and Territories,
TAAF, Paris, No 18, Jan-Mar 1962. 9699704
Dept of Navy/ONI Tr No 921

AFRICA

Economic

Gicam Reports Set Forth Economic Situation of Cameroon at End of 1965, 6 pp.

FRENCH, per, Bulletin de l'Afrique Noire, No 399, 5 Jan 1966, pp. 8071-8074.
JPRS 34196

Congo (Brazzaville) Government Officials Holds Dialogue with Private Industry, 5 pp.
FRENCH, np, Bulletin Quotidien de l'ACI, 13 Dec 1965, pp. 4-8.
JPRS 33948

Cameroonian Railroads,
FRENCH, per, Bulletin Quotidien d'Information Dated 17-24 December 1965.
DIA 2814000366

Problems and Prospects of Economic Cooperation Within the Third World, by Henri Bazin, 17 pp.
FRENCH, per, Developpement et Civilisations, No 24, Dec 1965, pp. 52-62.
JPRS 33990

Progress at Tamanrasset - Constantine Stagnating, 10 pp.
FRENCH, per, El Djéich, No 33, Jan 1966, pp. 16-21.
JPRS 34196

The Four-Year Plan Is Being Carried Out in Very Favorable Conditions, by Bamba Ould Yezid, 5 pp.
FRENCH, per, Europe France Outre-Mer, No 431, Dec 1965, pp. 22-24.
JPRS 34380

The First French Sea-Water Demineralization Project will Assure the Water Supply, 9 pp.
FRENCH, per, Europe France Outre-Mer, No 431, Dec 1965, pp. 34-36.
JPRS 34380

The Wharf Will Be Put into Operation in April 1966, 8 pp.
FRENCH, per, Europe France Outre-Mer, No 431, Dec 1965, pp. 37-38.
JPRS 34380

Africa Economic (Contd)

The Nouakchott - Rosso Road and the Mauritanian Road Network, by Yahya Ould Menkous, 7 pp.
FRENCH, per, Europe France Outre-Mer, No 431, Dec 1965, pp. 53-56.
JPRS 34380

Tunisian Import and Export Quotas with the USSR, Poland, and Bulgaria, 7 pp.
FRENCH, np, Journal Officiel de la Republique, 21 Jan 1966, pp. 97-100.
JPRS 34393

A Broad Review by the Ivory Coast of Its Economic and Aid Relations with Other Nations, 24 pp.
FRENCH, np, Fraternite, 31 Dec 1965, pp. 9-10; 7 Jan 1966, pp. 6-7; 21 Jan 1966, pp. 6-7.
JPRS 34224

The Role of Promogabon in the Economic Development of Gabon, by Jean-Baptiste Aubame, 7 pp.
FRENCH, per, Gabon d'Aujourd'hui, No 68, 13 Dec 1965, p. 3; No 71, 10 Jan 1966, p. 3; No 72, 17 Jan 1966, p. 3.
JPRS 34112

Chad's New Tax Laws and General Budget for 1965, 19 pp.
FRENCH, per, Info-Tchad, 20 Jan 1966, pp. 1-24.
JPRS 34365

The Economic Condition of the Constantinois, 7 pp.
FRENCH, per, Revolution Africaine, No 157, 29 Jan-4 Feb 1966, pp. 7-9.
JPRS 34393

Review of Upper Katanga Mining Company Monograph 1964, 18 pp.
FRENCH, per, Revue Belgo-Congolaise Illustrée, Vol XXXVII, No 1, Jan 1966, pp. 56-68.
JPRS 34365

Moroccan Port Development and the Three-Year Plan, 6 pp.
FRENCH, np, La Vie Economique, Dec 1963, p. 3.
JPRS 33948

Africa
Economic (Contd)

Economic Trial Balance for 1965, 12 pp.
FRENCH, np, La Vie Economique, 7 Jan 1966,
p. 4.
JPRS 34242

Tunisia's Economic Difficulties, by J. Ben
Brahem, 6 pp.
FRENCH, np, Le Monde, 7 Jan 1966, p. 4 and
8 Jan 1966, p. 4.
JPRS 34149

Tunisia's Economic Difficulties, by I. Ben
Brahem, 6 pp.
FRENCH, np, Le Monde, 7 Jan 1966, and 8 Jan
1966, p. 4.
JPRS 34068

Algerian Extractive Industry Activity in
Second Quarter of 1965, 13 pp.
FRENCH, np, Moudjahid, Vol 1, No 163, 28 Dec
1965, p. 3.
JPRS 33948

Algerian Mining Production and Its Profita-
bility, 5 pp.
FRENCH, per, Revolution Africaine, No 153,
1-7 Jan 1966, pp. 7-8.
JPRS 34068

Achievements of Belgian International Rural
Overseas Development Association in Congo,
Rwanda and Burundi, by H. Willot, 15 pp.
FRENCH, per, Revue Belgo-Congolaise Illustree,
Vol XXXVII, No 1, Jan 1966, pp. 44-51.
JPRS 34116

Colonel Bokassa Addresses Chamber of Com-
merce and Industry of the Central African
Republic, 5 pp.
FRENCH, np, Terre Africaine, Vol 4, No 109,
8-14 Jan 1966, p. 4.
JPRS 34091

Agricultural Progress in Cameroon 1962-1965,
by Jean-Baptiste Youke, 8 pp.
FRENCH, per, L'Unité, Vol 7, No 260, 19-26
Jan 1966, pp. 3, 4; Vol 7, No 261, 26 Jan -
2 Feb 1966, pp. 2, 3, 4.
JPRS 34185

Africa
Economic (Contd)

Angola and Mozambique: Their Foreign Trade
and Economic Relations with Portugal, by
Walter Guenthardt, 10 pp.
GERMAN, np, Neue Zuercher Zeitung, 29 Dec
1965, Sect. 7.
JPRS 34277

Modern Veterinary Research Institute Estab-
lished in Nova Lisboa, 26 pp.
PORTUGUESE, per, Boletim Oficial de Angola,
No 46, 17 Nov 1964, pp. 1431-1441.
JPRS 34091

Political

Achievements of the Revolution of the Congo-
Brazzaville, by Guy Menga, 7 pp.
FRENCH, per, l'Afrique Actuelle, No 1, 1965,
pp. 52-55.
JPRS 33948

Developments in the Congo (Brazzaville),
7 pp.
FRENCH, np, Bulletin Quotidien de l'ACI,
27 Jan 1966.
JPRS 34365

Upper Volta National Assembly Election Results
and Biographic Data, 5 pp.
FRENCH, np, Carrefour Africain, 7-14 Nov
1965, pp. 14-15; 12-19 Dec 1965, pp. 9-10.
JPRS 33948

Cooperation between the EEC and the Associated
African and Malagasy States, by Jacques Fer-
randi, 8 pp.
FRENCH, per, Communautés et Continents, Vol
57, No 28, Oct-Dec 1965, pp. 11-17.
JPRS 34112

Obstacles to the Training of African Cadres,
by Albert Tevoedjre, 9 pp.
FRENCH, per, Communautés et Continents, Vol
57, No 28, Oct-Dec 1965, pp. 33-40.
JPRS 34112

Africa
Political (Contd)

French Communist Journal Sums Up Tricontinental Conference Results: Many Delegates Identified, by Albert-Paul Lentin, 10 pp.
FRENCH, per, Democratie Nouvelle, No 1, Jan 1966, pp. 17-19, 22-25 and 95.
JPRS 34365

Minorities in Africa, 6 pp.
FRENCH, per, El Djéich, No 33, Jan 1966, pp. 34-37.
JPRS 34365

Reflection on Malian Problems by Yaya Diallo, 11 pp.
FRENCH, np, L'Essor Hebdomadaire, No 337, 10 Jan 1966, pp. 1, 6, 8.
JPRS 33990

EEC-Associated African States Hold Conference in Rome, 5 pp.
FRENCH, per, L'Etoile du Congo, 24 Jan 1966, p. 7.
JPRS 34365

November 1965 Regulations Governing Organization and Recruitment of Security Forces, 24 pp.
FRENCH, per, Journal Officiel de la République Centrafricaine, Vol 16, No 24, 15 Dec 1965, pp. 783-792
JPRS 33948

Economic and Political Panorama for 1965 in Morocco, 7 pp.
FRENCH, np, Maroc Informations, 1, 2, 3 Jan 1966, p. 2.
JPRS 34242

French Correspondent Assesses Chinese Communist Influence and Local Conditions in Pre-Coup Central African Republic, by Michel Legris, 9 pp.
FRENCH, np, Le Monde, 5 Jan 1966, p. 4.
JPRS 33990

Division: The Weakness of the Angolan Liberation Movements, by Robert Davezies, 6 pp.
FRENCH, per, Le Monde Diplomatique, Vol 3, No 143, Feb 1966, p. 5.
JPRS 34342

Africa
Political (Contd)

The African Labor Unions' Role for Peace and Brotherhood, by Rene Delanne, 6 pp.
FRENCH, per, Le Niger, 7 Feb 1966, p. 3.
JPRS 34365

Democracy in Africa Must Be Based on African Institutions and Characteristics, 5 pp.
FRENCH, np, La Semaine, Vol 15, No 698, 16 Jan 1966, pp. 1-2.
JPRS 33990

Conditions Leading to Coup in Central African Republic and Necessary Reforms, by Bruno Celestin Mandaki, 5 pp.
FRENCH, per, La Semaine, Vol 15, No 699, 23 Jan 1966, p. 3.
JPRS 34116

Israeli Correspondent Visits Frelimo Headquarters in Dar-Es-Salaam, by Nachum Pundak, 6 pp.
HEBREW, np, Davar, 31 Dec 1965, pp. 3-5.
JPRS 34034

Italian Socialist (PSIUP) Leader Interviewed on Return from Tricontinental Conference, with Lucio Luzzatto, 5 pp.
ITALIAN, np, Mondo Nuovo, Vol 8, No 5, 30 Jan 1966, p. 8.
JPRS 34116

Complete Text of Cabral's Address to Havana Tricontinental Conference, 9 pp.
ITALIAN, per, Mondo Nuovo, Vol 8, No 6, 6 Feb 1966, p. 8, and No 7, 13 Feb 1966, p. 8.
JPRS 34277

Communist Analysis of Coups in Dahomey, Upper Volta and Central African Republic, by Giorgio Signorini, 5 pp.
ITALIAN, per, Rinascita, No 3, 15 Jan 1966, pp. 12-13.
JPRS 34034

Soviet Assessment of African Press, 12 pp.
RUSSIAN, monograph Pechat', Radio i Televideniye Stran Afriki, 1965, pp. 3-16.
JPRS 34091

Africa
Military

Disciplinary Regulations of Provincial Volunteer Civil Defense Organizations Overseas, 15 pp.
FRENCH, per, Boletim Oficial da Guine, No 50, 11 Dec 1965, pp. 938-942.
JPRS 34116

People's National Army of Algeria -- 1965, 51 pp.
FRENCH, per, El Djeich, Dec 1965, pp. 1-49.
JPRS 34000

African-Style Democracy and Military Coups D'Etat, by Raphael Onambele, 6 pp.
FRENCH, per, L'Effort Camerounais, Vol 11, No 523, 16-22 Jan 1966, p. 8.
JPRS 34149

An Analysis of the Military Coups in Africa, 5 pp.
GERMAN, np, Neue Zuercher Zeitung, 7 Jan 1966, p. 1.
JPRS 34091

Sociological

Pay Schedules for the Mauritanian Navy, 7 pp.
FRENCH, per, Journal Officiel de la Republique Islamique de Mauritanie, Nos. 172/173, 22 Dec 1965, pp. 340-342.
JPRS 34068

Agricultural Development and the Peasantry in Black Africa, by Michel Legris, 12 pp.
FRENCH, np, Le Monde, 10-11 Feb 1966, p. 6.
JPRS 34365

The French in the Maghreb Today, by Philippe Herreman, 6 pp.
FRENCH, per, Le Monde Diplomatique, No 142, Jan 1966, p. 8.
JPRS 34068

Africa
Sociological (Contd)

African Road to Socialism, by Habib Thiam, 9 pp.
FRENCH, per, Revue de Psychologie des Peuples, Vol 20, No 4, 4th Quarter 1965, pp. 446-455.
JPRS 33948

The Social Ins and Outs of South Rhodesian Racism, by S. Kuznetsova, 6 pp.
RUSSIAN, per, Kommunist, No 1, Jan 1966, pp. 97-99.
JPRS 34124

Some Aspects of Local Self-Administration in Basutoland, by K. T. J. Raketla, 5 pp.
SERBIAN, per, Opstina, No 11, Nov 1965, pp. 56-60.
JPRS 33990

MIDDLE EAST

Economic

Islam Contains the Basis for a Socio-Economic Policy Reconciling Conflicting Systems, by Dr. Ma'ruf al-Dawalibi, 10 pp.
ARABIC, np, al-Hayat, 20 Jan 1966, p. 1.
JPRS 34150

Higher Academies for Agriculture, Industry, and Business, 16 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah al-Isbsa'i, Vol 3, No 32, Aug 1965, pp. 1-12.
JPRS 33952

Development of UAR Exports during 1962 and 1963, 7 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah al-Isbsa'i, Vol 3, No 32, Aug 1965, pp. 43-48.
JPRS 33952

Higher Scientific Abilities and Qualifications and Their Development in Pharmacy, 13 pp.
ARABIC, per, Al-Ta'bia al-'Ammah wa-'l-Isbsa', Vol 3, No 35, Nov 1965, pp. 1-13.
JPRS 33956

Middle East
Economic (Contd)

The Statistical Methods Employed in Estimates of Agricultural Production in the United Arab Republic, 12 pp.

ARABIC, per, Al-Ta'bia al'Amma wa-'l-Ihsa, Vol 3, No 35, Nov 1965, pp. 34-37.
JPRS 33956

General Statistics on the UAR, 28 pp.

ARABIC, per, Mukhtarat Min Al-Ihsa'at Al-'Ammah, 23 Dec 1965, pp. 10, 12-16, 40, 42-48, 50-52, 70, 72-75, 82, 84, 85, 92, 94-112, 114, 115, 124, 125.
JPRS 34108

Political

Coordination Is Needed to Solve the Problems of Wadi El-Jadid Province, by Abbas Mabrouk, 5 pp.

ARABIC, np, al-Ahram, 23 Jan 1966, pp. 7 & 9.
JPRS 34363

Preparation and Education of the Cadre of the Political Machinery, 10 pp.

ARABIC, per, al-Tali'ah, Dec 1965, pp. 27-34.
JPRS 33963

Efforts to Unify Israeli Communists, by Emile Habibi, 5 pp.

ARABIC, np, al-Ittihad, 14 Jan 1966, p. 2.
JPRS 34173

Restoring Unity to the Israeli Communist Party, by Amil Habiby, 6 pp.

ARABIC, np, al-Ittihad, 21 Jan 1966, p. 2.
JPRS 34150

How to Select Members of the Political Machinery and Why Should They Be Devoted To Their Work, by Dr. Mohammed El-Khafif, 8 pp.

ARABIC, per, al-Tali'ah, Dec 1965, pp. 35-39.
JPRS 33963

Middle East
Political (Contd)

The Automatic Way Vis-A-Vis the Routine Way in the Formation of the Technical and Political Cadres, by Mustafa Teiba, 9 pp.

ARABIC, per, al-Tali'ah, Dec 1965, pp. 40-44.
JPRS 33963

Political Leadership and Organizational Relations within the Socialist Union by Michel Kamel, 18 pp.

ARABIC, per, al-Tali'ah, Dec 1965, pp. 45-55.
JPRS 33963

Problems of the Formation of the Political Cadre as Revealed by the Various Socialist Experiments, by Mohammed Sayyed Ahmed, 17 pp.

ARABIC, per, al-Tali'ah, Dec 1965, pp. 56-67.
JPRS 33963

Al Razzaz, Al Atrash, and Chinese Acclaim Damascus-Peiping Cooperation, 8 pp.

ARABIC, np, Tla Al Amam, 13 Dec 1965, p. 2.
JPRS 33978

EDA Abdicates Its Leadership Role in the Left to Papandreou, 25 pp.

GREEK, per, Anagennisi, No 12, Sept 1965, pp. 1-13.

JPRS 34150

Trotskyism and Its Variations -- A Comment Concerning Certain "Left" and "New" Positions, 14 pp.

GREEK, per, Anagennisi, No 12, Sept 1965, pp. 33-38.

JPRS 33992

Several Problems in Party Ideological Work, by Vassilis Gouyuanos, 13 pp.

GREEK, per, Elliniki Aristera, No 29, Dec 1965, pp. 40-46.

JPRS 34225

Soviet Paper Discusses Arab Socialism, 5 pp.

HEBREW, np, Devar, 21 Dec 1965,
JPRS 33925

Middle East
Political (Contd)

Resolutions of the 10th Histadrut Congress,
34 pp.
HEBREW, np, Devar, 19 Jan 1966, p. 11, 12.
JPRS 34363

The Communists in Israel after the Moscow
Talks, by Habib Canaan, 7 pp.
HEBREW, np, Haarets, 16, 17 Jan 1966.
JPRS 34173

Kol Haam Reports on Tenth Histadrut Conven-
tion, by Esther Vilenska, 8 pp.
HEBREW, np, Kol Haam, 14 Jan 1966, pp. 2 and 3.
JPRS 34325

Statement of Turkish Communist Party First
Secretary at Prague Meeting, by Yakub Demir,
8 pp.
TURKISH, per, Yeni Cag, Oct 1965, pp. 858-
864.
JPRS 34016

Military

Analysis of the Atomic Target, by Col. A. H.
Subhi Iskandar Mina, 15 pp.
ARABIC, per, Al-Majalla al-'Askariyya li-'l-
Quwat al-Musallaha, Vol 27, No 119, Mar 1965,
pp. 204-215.
JPRS 33992

Analysis of the Chemical Target, by A. H.
Subhi Iskandar Mina, 10 pp.
ARABIC, per, Al-Majalla al-'Askariyya li-'l-
Quwat al-Musallaha, Vol 27, No 121, Jul 1965,
pp. 128-136.
JPRS 33992

Middle East
Sociological

Rural Health Services in the United Arab
Republic in Fiscal 1964-65, 14 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah al-Ibsa'i,
Vol 3, No 32, Aug 1965, pp. 30-42.
JPRS 33952

The Development of Scientific Capabilities
in the Field of Pharmacy, 12 pp.
ARABIC, per, al-Ta'bi'ah al-'Ammah al-Ibsa'i,
No 34, Oct 1965, pp. 1-7.
JPRS 33952

Development of Vocational Training in the
United Arab Republic, 11 pp.
ARABIC, per, Al-Ta'bia al-'Ammah wa-'l-Ihsa,
Vol 3, No 36, Dec 1965, pp. 11-20.
JPRS 33956

Views of the Students about the Experiment
of the First Course Given by the Higher
Institute of Socialist Studies, by Abdel Hadi
Nasif and Salah Zaki, 10 pp.
ARABIC, per, al-Tali'ah, Dec 1965, pp. 68-
73.
JPRS 33963

Public Opinion Survey of Arab Socialist Union,
by "Abd Al Fattah Abu Al Fadl, 16 pp.
ARABIC, np, Al Tali'a, Jan 1966, pp. 93-99.
JPRS 34032

Himachal - The Place of God,
by Rajendra Biharilal, 10 pp.
HINDI, per, Northern Railway Magazine,
Vol XIV, No 10, Oct 1965, New Delhi,
India.
DIA IN 14-66

Demagogues and Reality, by F. Hertzberg, 22 pp.
YIDDISH, np, Frei Yisroel, 5 Nov 1965, pp. 3
and 5.
JPRS 33952

FAR EAST

Economic

Commerce Must Serve Rural Villages, by Kuan Ta-t'ung (4619 1129 0681), 14 pp.
CHINESE, per, Ching-chi Yen-chiu, No 12,
20 Dec 1965, pp. 11-17.
JPRS 34301

Tread the Road of Independent Products
Designing, by Jen Kuang (0117 0342), 8 pp.
CHINESE, per, Ching-chi Yen-chiu, No 12,
20 Dec 1965, pp. 18-21.
JPRS 34301

The Comprehensive Economic Development of
the Mountain Region in North Kiangsi, by
Ch'en Hsien-huang (7115 0341 3552), 16 pp.
CHINESE, per, Ching-chi Yen-chiu, No 12,
20 Dec 1965, pp. 22-27 and 28, 29.
JPRS 34301

Forestry Operation Village Is An Ideal Form
of Organization in Building Socialist New
Forestry Region, by Jen Yuan-shou (0117
0337 1108), 7 pp.
CHINESE, per, Ching-chi Yen-chiu, No 12,
20 Dec 1965, pp. 28-31.
JPRS 34301

The People's Currency Is a Value Symbol
during the Present Stage in China, by Kao
Hsiang (7559 5046), 20 pp.
CHINESE, per, Ching-chi Yen-chiu, No 12,
20 Dec 1965, pp. 36-46.
JPRS 34301

Conference on Vibration of Buildings and
Power Machinery Foundations, by Chu Shih
Ming (1446 4258 6900) and Chang Chia Chia-
hsiang (1728 1367 4382), 6 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 9,
20 Sept 1965, pp. 838-840.
JPRS 33947

First Congress of Representatives of the
Chinese Society of Surveying and Mapping and
Its First Comprehensive Scientific Conference,
6 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 9,
20 Sept 1965, pp. 840-843.
JPRS 33947

Far East Economic (Contd)

Are Coal Gas Ships Worth Retaining?, by
Ch'en Hung-chiu (7115 7703 0036), 5 pp.
CHINESE, per, Shui Yun, No 10, 7 Oct 1965,
pp. 31-33.
JPRS 34250

Measures for Developing Agricultural Produc-
tion and the Study of Natural Conditions of
Farmlands, by Huang Ping-wei (7806 4426 4850),
14 pp.
CHINESE, per, Ti-li, No 5, 27 Sept 1965, pp. 203-
206.
JPRS 34121

Topographic Factors in Agricultural Mechani-
zation, by Sha Li-kung (3097 4539 0501), 9 pp.
CHINESE, per, Ti-li, No 5, 27 Sept 1965,
pp. 215-217.
JPRS 34121

On Surveying of Farm Land, by Lu Shu-fen
(7120 3359 5358), 6 pp.
CHINESE, per, Ti-li, No 5, 27 Sept 1965,
pp. 225-226.
JPRS 34121

Ships of the Maritime Safety Agency (MSA)
by Eiichi Aoki.
JAPANESE, rpt, Ships of the World,
Vol, XCV, 28 July 1965.
IA 5852061965

Labor Administration in Rural Economy, by
Chon Tae-yong, 9 pp.
KOREAN, per, Kulloja, No 21, 5 Nov 1965,
pp. 14-20.
JPRS 34307

The Essence and Superiority of the Spot
Evaluation System, by Kim Song-t'ae, 14 pp.
KOREAN, per, Kulloja, No 21, 5 Nov 1965,
pp. 21-30.
JPRS 34307

Let Us Arm Ourselves with the Knowledge
Concerning the Control and Management of
the Socialist Economy, 8 pp.
KOREAN, per, Kulloja, No 22, 20 Nov 1965,
pp. 10-16.
JPRS 34307

Far East
Economic (Contd)

Construction of a Self-Supporting National Economy and Foreign Trade, by Mun Chong-t'aek, 13 pp.
KOREAN, per, Kyongje Yongu, No 4, 1965, pp. 14-22.
JPRS 34307

Livestock Preparations for the Winter, 5 pp.
MONGOLIAN, per, Namyn Am'dral, No 9, Sept 1965, pp. 3-6.
JPRS 33980

Questions of Internal Business Accounting at Agricultural Artels, by Ts. Senged, 7 pp.
MONGOLIAN, per, Namyn Am'dral, No 10, Oct 1965, pp. 55-60.
JPRS 34203

Some of the Ways of Increasing the Material Incentive in Livestock Breeding, by Yu. Tsedenbal, 19 pp.
MONGOLIAN, np, Unen, 17 Dec 1965, pp. 1-3.
JPRS 34345

Characteristics of the New Division of Labor in Agriculture, by Tran Kuan Truong, 16 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No 30, Dec 1965, pp. 7-15 & 22.
JPRS 34389

Development of the Coal Industry in the Near Future, by Nguyen Thanh Dao, 12 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No 30, Dec 1965, pp. 39-45.
JPRS 34389

Stepping Up the Development of Small Hydro-electric Power Stations, by Vo Quoc Tuy, 12 pp.
VIETNAMESE, per, Nghien Cuu Kinh Te, No 30, Dec 1965, pp. 46-51.
JPRS 34389

Five Great Years for Foodstuffs Industries, by Chung Huong, 5 pp.
VIETNAMESE, per, Ky thuat Cong Nghiep nhe, No 12, Dec 1965, pp. 1 and 2.
JPRS 34254

Far East
Economic (Contd)

Exports in the Current Situation, by Nguyen Tam, 8 pp.
VIETNAMESE, per, Thoi Su Pho Thong, No 24, Dec 1965, pp. 17-24.
JPRS 34048

The Contributions of the Transportation and Communications Branch to the Science and Technology of Vietnam, by Tran Van Cau, 5 pp.
VIETNAMESE, per, To Quoc, Dec 1965, pp. 18-20.
JPRS 34048

Economic Development of the Mountain Region, by Hoang Bac, 11 pp.
VIETNAMESE, per, Tuyen Huan, No 12, Dec 1965, pp. 25-32.
JPRS 34048

Political

To Learn from Mai Hsien-Te in Order to Become the Hardcore of the Proletariat, by Fang Chi (2455 3078), Shih Yung (0670 7169) and Shang Te (1424 1779), 6 pp.
CHINESE, per, Chung-kuo Ching-nien, No 3, 1 Feb 1966, pp. 14-15.
JPRS 34495

Implement Planned Operation and Enhance the Quality of Transportation, 5 pp.
CHINESE, per, Ch'i-ch'e, No 12, 12 Dec 1965, pp. 32-33.
JPRS 34494

The Revolution in Historiography Must Be Carried to the Very End, by Yin Ta (1438 6671), 16 pp.
CHINESE, per, Hung-ch'i, No 3, 1966.
JPRS 34459

After the Bankruptcy of America's "Special Warfare" Strategy, by Chang Fang (1728 2397) 13 pp.
CHINESE, per, Kuo-chi Wen-t'i Yen-chiu, No 6, 25 Nov 1965, pp. 1-8.
JPRS 34495

Far East
Political (Contd)

General Index of Min-tsu Tuan-chieh (National Solidarity) Nos. 1-12, 1965, 33 pp.
CHINESE, per, Min-Tsu Tuan-chieh, Nos. 1-12, Dec 1965, pp. 1-9.
JPRS 34219

Cheers from the People of the Whole World for Our Glorious Achievements, 8 pp.
CHINESE, per, Shih-chieh Chih-shih, No 1, 10 Jan 1966, p. 11.
JPRS 34089

Japanese CP Organ's Criticism of Yamazaki's "Topics in Japanese Social Thought", by Mitsuwa Hiroshi, 6 pp.
JAPANESE, np, Akahata, 17 Jan 1966, p. 5.
JPRS 34130

The Glorious Path Our Party Has Followed and Our Duty, 7 pp.
KOREAN, per, Kulloja, No 21, 5 Nov 1965, pp. 2-6.
JPRS 34312

A Powerful Weapon of the Revolution: A True Textbook of Struggle, 6 pp.
KOREAN, per, Kulloja, No 21, 5 Nov 1965, pp. 31-34.
JPRS 34312

We Must Continue the Revolution, 10 pp.
KOREAN, per, Kulloja, No 22, 20 Nov 1965, pp. 2-9.
JPRS 34312

Elimination of Distinction between Manual Labor and Mental Labor, and the Technical, Cultural and Ideological Revolution, by Hong Sung-un, 8 pp.
KOREAN, per, Kulloja, No 22, 20 Nov 1965, pp. 17-23.
JPRS 34312

The Party Policies on Compliance with Law and Order Must be Effectively Implemented, by G. Chimed, 12 pp.
MONGOLIAN, per, Namyn Am'dral, No 9, Sept 1965, pp. 7-16.
JPRS 33980

Far East
Political (Contd)

The New Party Education Year, by B. Ligden, 5 pp.
MONGOLIAN, per, Namyn Am'dral, No 9, Sept 1965, pp. 22-25.
JPRS 33980

An Effective Work with Individuals Is the Main Task of All Party Organizations, by B. Dejid, 7 pp.
MONGOLIAN, per, Namyn Am'dral, No 10, Oct 1965, pp. 7-12.
JPRS 34203

The Conference of Cultural Workers Must Be Honored with New Successes, by E. Dorjsuren, 5 pp.
MONGOLIAN, per, Namyn Am'dral, No 10, Oct 1965, pp. 13-16.
JPRS 34203

Tenacious Efforts of an Agricultural Artel Chairman, by L. Ichinhorloo, 5 pp.
MONGOLIAN, per, Namyn Am'dral, No 10, Oct 1965, pp. 44-48.
JPRS 34203

A New Book Concerning the Mongolian History, by G. F. Kim and A. I. Novgorod, 5 pp.
MONGOLIAN, per, Namyn Am'dral, No 10, Oct 1965, pp. 74-79.
JPRS 34203

Burma's New Way, by V. Vasil'yev and A. Zhabreyev, 5 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966, pp. 120-122.
JPRS 34499

Far East
Military

Apply Principles of Combat Leadership and Settle Relationship between Demand for Annihilation of Enemy and Protection of Our Positions and Demand for Maintenance and Improvement of Our Forces, by General Van Tien Dung, 9 pp. VIETNAMESE, np, Quan Doi Nhan Dan, 15 Dec 1965. JPRS 34052

Geographic

Consolidation of Land Reclamation Bases in the Mountain and Middle Regions, by Ngo Van Tinh, 12 pp. VIETNAMESE, per, Nghien Guu Kinh Te, No 30, Dec 1965, pp. 33-38. JPRS 34389

Sociological

On Class Struggle during the Socialist Period in Communist China, by Hsu Ti'hsin (6079 3321 2450), 18 pp. CHINESE, per, Ching-chi Yen-chiu, No 12, 20 Dec 1965, pp. 1-10, 46. JPRS 34301

Shanghai Education -- Spare Time Education Issue, General Index, No 1-12, 1965, 11 pp. CHINESE, per, Shanghai Chiao-yu, Yeh-yu Chiao-yu Pan, No 12, Dec 1965. JPRS 34047

Shanghai Education - General Index, No 1 - 12, 1965, 25 pp. CHINESE, per, Shang-hai Chiao-yu, No 12, 12 Dec 1965. JPRS 34047

The University of Hanoi in the Maquis, by Jean Emile Vidal, 6 pp. FRENCH, per, Humanite Dimanche, 13 Feb 1966, pp. 21, 24. JPRS 34379

Far East
Sociological

Training of Veterinarians in the Chinese People's Republic, by G. Meisinger, 7 pp. GERMAN, per, Monatshefte fuer Veterinaer-Medizin, No 1, 1 Jan 1966, pp. 7-11. JPRS 34331

The Establishment of Subjective Entity Is the Basic Guarantee for the Development of Scientific and Educational Tasks, by Chi Yong-sun, 9 pp. KOREAN, per, Kulloja, No 21, 5 Nov 1965, pp. 7-13. JPRS 34312

Material on the Ethnography of the Highland Peoples in Nghe An Province (Democratic Republic of Vietnam), by A. I. Mukhlinov, 15 pp. RUSSIAN, per, Sovetskaya Etnografiya, No 5, Sept-Oct 1965, pp. 45-56. JPRS 33938

LATIN AMERICA

Economic

Packaging in Cuba, by Karel Lustig. CZECH, per, Obaly, No 6, 1965, pp 161-164. *ACSI I-9318 ID 2204013366

Brazilian Economic Report and Tendencies, 12 pp. PORTUGUESE, per, Carta Economica Brasileira, Oct 1965, pp. 5-9, Nov-Dec 1965, pp. 5-8. JPRS 34132

Evolution of the Brazilian Shipbuilding Industry, by Ary Biochini, 10 pp. PORTUGUESE, per, Portos e Navios, Jan 1965, pp 273-275. DIA LN 303-65

Latin America
Economic (Contd)

The Characteristics and Facilities of the Port of Callao, 6 pp.
SPANISH, per, Actualidad Economica del Peru, No 43, Sept 1965, pp. 8-12.
JPRS 33884

What Is Economic Integration?, by Dr. Jose Antonio Encinas del Pando, 16 pp.
SPANISH, per, Actualidad Economica del Peru, No 43, Sept 1965, pp. 26-40.
JPRS 33884

Research in the Files of US Monopolies in Cuba, by Jurgen Kuczynski, 8 pp.
SPANISH, np, Cuba Socialista, Jan 1966, pp. 92-99.
JPRS 34205

Alleged Involence of Monopolies in Basing Economic Forecasts on False Assumption of a Victory in Class-Warfare, by Dieter Bandis, 5 pp.
SPANISH, np, Cuba Socialista, Jan 1966, pp. 100-105.
JPRS 34205

Cuba's Objective in 1966 Sugarcane Harvest: More Sugar Per Cane, 8 pp.
SPANISH, per, Cuba Socialista, Jan 1966, pp. 119-126.
JPRS 34297

Cuba Aims at Better Quality in Consumer Goods, 6 pp.
SPANISH, per, Cuba Socialista, Jan 1966, pp. 126-132.
JPRS 34297

Decree No 3506: Lists Prices under Price Control Decree, 31 pp.
SPANISH, per, Gaceta Oficial de la Republica de Cuba, Vol LXIII, No 15, 17 Sept 1965, pp. 382-403.
JPRS 34131

"Contract Wages" System To Be Used in All Construction Ministry Building in Cuba, by Joaquin Oramas, 5 pp.
SPANISH, np, Granma, Vol 1, No 79, 21 Dec 1965, p. 4.
JPRS 33920

Latin America
Economic (Contd)

The New Political-Administrative Structure of Cuba, 7 pp.
SPANISH, np, Granma, 2nd Year, No 7, 8 Jan 1966, p. 2.
JPRS 34140

Experiences from the Beginning of Oriente's Sugar Harvest, by Ariel Rojas and Jose Vazquez, 5 pp.
SPANISH, np, Granma, Second Year, No 7, 8 Jan 1966, p. 8.
JPRS 34140

Comparative Study of the Run of Interprovincial Buses on the Central Highway and the White Way, 5 pp.
SPANISH, per, Transportes, Vol IV, No 29, 1965, pp. 11-14.
JPRS 34006

Liquid Sugar, by C. Delgado, 5 pp.
SPANISH, np, El Mundo, 2 Jan 1966 (Supplement Section), pp. 10-11.
JPRS 33920

Evaluation of Oil Revenues, 5 pp.
SPANISH, per, Mundo Economico, Dec 1965, pp. 10-11.
JPRS 34247

1965 a Year of Great Fluctuations in the Financial World in Argentina, 5 pp.
SPANISH, np, La Nacion, 26 Dec 1965, p. 23.
JPRS 33976

Economic and Financial Analysis of Argentina for 1965, 18 pp.
SPANISH, np, La Nacion, 26 Dec 1965, pp. 26-27.
JPRS 33976

The Chilean Institute of Productivity Gives Technical Assistance to Companies and Workers, 13 pp.
SPANISH, np, La Nacion, 14 Jan 1966, p. 18.
JPRS 33976

Latin America
Economic (Contd)

Favorable Payment Balance Excess of \$77 Million, 7 pp.
SPANISH, np, La Nacion, 14 Jan 1966, p. 23.
JPRS 33976

Analysis of Cuban Exports, 7 pp.
SPANISH, per, Panorama Economico Latino-Americano, No 157, 1965, pp. 10-14.
JPRS 33969

Cuban Metal Industry Planning Aims at Low Cost, 8 pp.
SPANISH, per, Panorama Economico Latino-Americano, No 156, 1965, pp. 16-20.
JPRS 33969

Deterioration of Red Chinese-Cuban Trade, 7 pp.
SPANISH, np, PEC (Politica, Economia, Cultura), Vol 4, No 161, 25 Jan 1966, pp. 8-9.
JPRS 34213

Status of Cuba's Foreign Trade from 1958 to 1964, 10 pp.
SPANISH, per, PEL - Panorama Economico Latino-Americano, Vol VI, No 153, 1965, pp. 25-30.
JPRS 33969

The Economy of Peru at a Crossroads, by Cesar Martin Barreda, 11 pp.
SPANISH, np, La Prensa, 1 Jan 1966, p. 11.
JPRS 34049

Evaluation of the Ninth Meeting of the Central American Economic Cooperation Committee, 7 pp.
SPANISH, np, Prensa Libre, 2, 3, and 4 Feb 1966, p. 10.
JPRS 34256

The Most Important Economic Events of 1965, by Julio Formoso, 7 pp.
SPANISH, np, La Republica, 2 Jan 1966, p. 5.
JPRS 34247

Public Construction Investment Budget of Chile for 1966, 8 pp.
SPANISH, per, Revista de la Construccion, No 43, Dec 1965, pp. 44-47.
JPRS 34049

Latin America
Political

Al-Ahram: An Interview with Fidel Castro, by Hammady Fu'ad, 8 pp.
ARABIC, np, Al-Ahram, 29 Jan 1966, pp. 5 and 11.
JPRS 34297

What Happened at the Havana Tricontinental Conference, 9 pp.
FRENCH, np, L'Humanite Nouvelle, Vol 2, No 14, Feb 1966, pp. 8-9.
JPRS 34365

Text of Speech by Chief Japanese Delegate Kahi at the First Congress for Solidarity of the Peoples of Asia, Africa, and Latin America, by Shizuma Kahi, 11 pp.
JAPANESE, np, Akahata, 24 Jan 1966, p. 1.
JPRS 34340

Castro's Hopes for Continental Leadership Seen Based on Dangerous Misconceptions, by Giuseppe dall'Ongaro, 6 pp.
ITALIAN, np, Il Giornale d'Italia, 22-23 Jan 1966, p. 3.
JPRS 34172

Life of Cuban People Contrasted with Impression given Conference Delegates, by Giuseppe dall'Ongaro, 5 pp.
ITALIAN, np, Il Giornale d'Italia, 26-27 Jan 1966, p. 3.
JPRS 34172

United States, the Myth that Doesn't Die, by Giuseppe dall'Ongaro, 9 pp.
ITALIAN, np, Giornale d'Italia, Feb 5 and 6, 1966, p. 3.
JPRS 34264

Leaders of IV Internationale Protest Castro's Attack on Trotskyism, by Livio Maitan and Pierre Frank, 5 pp.
ITALIAN, per, IV Internazionale, 2nd half of Jan 1966, pp. 17-21.
JPRS 34264

Brief History of a Technological Conquest, 5 pp.
PORTUGUESE, per, Revista Tecnica Sulamericana, p 52, Sept 1965.
DIA LN 8-66

Latin America
Political (Contd)

Uruguayan Communist Stresses Importance of
Uniting All Forces against Imperialism, by Cesar
Reyes Daglio, 9 pp.
RUSSIAN, per, Partiy'naya Zhizn', No 1, Jan
1966, pp. 68-73.
JPRS 34157

Pravda Interview with Head of the Soviet Dele-
gation to the Havana Conference, 6 pp.
RUSSIAN, np, Pravda, 28 Jan 1966, p. 5.
JPRS 34172

Antecedents and Objectives of the Movement of
Solidarity of the Peoples of Africa, Asia and
Latin America, 26 pp.
SPANISH, per, Cuba Socialista, Feb 1966,
pp. 40-71.
JPRS 34350

Resolutions Taken at the First Tricontinental
Solidarity Conference of Havana on Colonialism
and Neocolonialism, 16 pp.
SPANISH, per, Cuba Socialista, Feb 1966,
pp. 119-132
JPRS 34350

General Resolution of the Social and Cultural
Commission of the First Tricontinental
Conference, 23 pp.
SPANISH, np, Cuba Socialista, Feb 1966,
pp. 132-149.
JPRS 34350

Resolution on Organization and Message to the
U. S. Workers, 11 pp.
SPANISH, per, Cuba Socialista, Feb 1966,
pp. 149-158, 202-204.
JPRS 34350

Resolutions Taken at the First Tricontinental
Solidarity Conference of Havana on Asia,
17 pp.
SPANISH, np, Cuba Socialista, Feb 1966, pp.
158-169, 172-175.
JPRS 34350

First Tricontinental Conference's Resolu-
tions on Africa, 12 pp.
SPANISH, np, Cuba Socialista, Feb 1966,
pp. 175-184.
JPRS 34350

Latin America
Political (Contd)

Tri-Continental Conference Resolutions on
Latin America, 16 pp.
SPANISH, np, Cuba Socialista, Feb 1966,
pp. 184-201.
JPRS 34350

Present Situation of the Colombian Communist
Party, 8 pp.
SPANISH, per, Este & Oeste, Vol IV, No 80,
1-15 Dec 1965, pp. 11-16.
JPRS 34306

PC Secretary Outlines Tasks for 1966 in
Camaguey, by Enrique Mesa, 5 pp.
SPANISH, np, Granma, 20 Dec 1965, p. 3.
JPRS 33969

Bolivian Revolutionary Labor Party Calls for
a Single Revolutionary Front of all Leftist
and Left-Wing Groups, 5 pp.
SPANISH, per, Lucha Obrera, Nos. 173 and 174,
1st & 2nd weeks Jan 1966, pp. 1, 2, 3.
JPRS 34361

Election Reform Proposals by the Communist
Party of Bolivia, 6 pp.
SPANISH, np, Unidad, No 267, 22 Jan 1966,
pp. 3 & 7.
JPRS 34361

Marxist-Leninist and Revisionist Views on
Socialism Analyzed in Chilean Paper, 5 pp.
SPANISH, per, Vanguardia, Jan 1966, p. 2.
JPRS 34016

Santiago Journal Reports on Second VFM
Conference, 5 pp.
SPANISH, per, Vanguardia, Jan 1966, p. 3.
JPRS 34016

Castro Slander Will Fail Say Argentine
Troskyites, by J. Posadas, 33 pp.
SPANISH, np, Voz Proletaria, 2 Jan 1966,
pp. 3-7, 10-11, 15, 8 and 9.
JPRS 34187

Latin America
Political (Contd)

Argentine Trotskyite Magazine Discusses Tricontinental Havana Conference and Need for United Front, 5 pp.

SPANISH, np, Voz Proletaria, 6 Jan 1966, p. 8.

JPRS 34187

Argentine Trotskyite Party Magazine Discusses Growing Pains of World Revolution, by J. Posadas, 32 pp.

SPANISH, np, Voz Proletaria, 6 Jan 1966, pp. 4-5, 7; 13 Jan 1966, pp. 4-8.

JPRS 34187

Communication to All Sections of Fourth International from Argentine Trotskyites, by J. Posadas, 6 pp.

SPANISH, np, Voz Proletaria, 20 Jan 1966, pp. 2, 8-9.

JPRS 34187

Argentine Trotskyites Call Tricontinental Conference a Failure, by J. Posadas, 19 pp.

SPANISH, np, Voz Proletaria, 20 Jan 1966, pp. 8-9, 12, 14 and 15.

JPRS 34187

Argentine Trotskyite Organ Calls for United Front in Southeast Asia against Imperialism, by J. Posadas, 6 pp.

SPANISH, np, Voz Proletaria, 27 Jan 1966, pp. 3, 8, and 10.

JPRS 34157

Geographic

Geology of the West Central Mato Grosso, by Fernando F. M. de Almeida.

PORTUGUESE, bk, Geologia do Centro-Oeste Mato-Grossense, 1964, pp 11-133.

*JPRS/SF-4161

Present Peruvian Cartography, 48 pp.

SPANISH, per, Boletín de la Sociedad Geografica de Lima, Vol 83, Aug-Dec 1964, pp. 13-60.

JPRS 34275

Latin America
Sociological

The Lima Population Plan, 6 pp.

SPANISH, np, El Comercio, 28 Jan 1966, p. 7.

JPRS 34341

Fifth Anniversary of the Revolutionary Training Schools in Cuba, by Lionel Soto, 17 pp.

SPANISH, np, Cuba Socialista, Jan 1966, pp. 72-91.

JPRS 34213

Este & Oeste: The Student Situation in Cuba, by Juan Manuel Salvat, 5 pp.

SPANISH, per, Este & Oeste, 1-15 Jan 1966, pp. 14, 15, 16.

JPRS 34264

Nine New Municipalities Created in the Escambray, by Pedro Luis Padron, 5 pp.

SPANISH, np, Granma, 2nd Year, No 18, 19 Jan 1966, p. 8.

JPRS 34140

The Foreign Indebtedness of Uruguay

Amortizations and Loans, by Hermann Meissner, 5 pp.

SPANISH, np, La Manana, 17 Jan 1966, pp. 13 and 14.

JPRS 34313

SCIENTIFIC

Aerospace

Five Years of Soviet Space Investigation,
by M. G. Kroshkin, V. G. Samarin, 19 pp.
RUSSIAN, per, Ak Nauk SSSR, Mezhdudomstven
Geofiz Komit, Vol XIII, 1963, pp 80-93.
9698999
FTD-MT-65-64

Maneuvering in Free Space, by
V. Stepantsov, et al.
RUSSIAN, per, Aviats i Kosmonav,
Vol XLVII, No 7, 1965, pp 48-53.
*NASA TT F-9883

Physical Principles of Rocket Weapons,
by M. N. Aleshkov, I. I. Zhukov.
RUSSIAN, bk, Fizicheskiye Osnovy
Raketnogo Oruzhiya, 1965, 464 pp.
*FTD-MT-66-20

Physics of the Moon and Planets, by
V. V. Avramchuk, et al.
RUSSIAN, rpt, Fizika Luny i Planet,
1964, 139 p.
*NASA TT F-382

Collected Works of K. E. Tsiolkovskiy,
Volumen III - Dirigibles, by
A. A. Blagonravov,
RUSSIAN, rpt, K. E. Tsiolkovskiy, Sobraniye
Sochineniy, Tom III, Mirizhabli,
1959.
NASA TT F-238

Space Beacons in Navigation. Chapter 4.
Possibilities of Measuring Navigational
Parameters for Fixing Ship Position With
the Aid of Satellites, by L. I. Gordeyev,
V. P. Zakolodiyazhnyi, et al.
RUSSIAN, per, Kosmicheskie Mayaki v
Navigatsii Obozongiz, 1964, pp 95-118.
Dept of Navy Tr 4484/APL/JHU T-1613

Determination of Vertical Wind Gusts
on the Basis of Oscillations of Aircraft
in Flight With the Pilot's Action on
Control Levers Taken Into Account, by
A. S. Dubov, 25 pp.
RUSSIAN, per, Trudy Glavnoy Geofiz
Obser, No 111, 1961, pp 109-114.
6698900
FTD-MT-64-437

Scientific Aerospace (Contd)

Design of Thin Structure of Aircraft Fuse-
lage Type with an Opening, by A. F. Kuchinskiy,
14 p.
RUSSIAN, per, Trudy Kazanskogo Aviatsionnogo
Instituta, Vol LXXVII, 1963, pp 35-48.
*ACSI T-9298
ID 2204011366

Low Frequency Instability of the Nominal
Regime of a Liquid Rocket Engine, by
K. S. Kolesnikov, 30 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh
Fiz, No 2, 1965, pp 119-130. 9699077
FTD-TT-65-1772

Works on Rocket Technology, by
K. E. Tsiolkovskiy.
RUSSIAN, rpt, Trudy po Raketnoy
Tekhnike, 1947.
NASA TT F-243

Parachute, by Ye. Yefremov.
RUSSIAN, Patent No 171274.
*FTD-TT-66-104

Space Vehicle Operational Stations, by Ch'ien
Hsing-i (6929 2502 0001), 5 pp.
CHINESE, per, Hang-k'ung Chih-shih, Vol II, No
2, 7 Feb 1965, pp. 12-13.
JPRS 34378

Ground Installations for Major Rockets, by
Cheng Yu (1767 1342), 5 pp.
CHINESE, per, Hang-k'ung Chih-shih, Vol II,
No 4, 7 Apr 1965, pp. 4-6.
JPRS 34378

Use of the Flow Transition Measurements to
Improve the Accuracy of the Experimentally
Determined Form Factors, by J. F. Roy.
FRENCH, per, Assoc. Technique Maritime et
Aeronautique, 1963, pp 1-17. 9230627
NSTIC Tr 1605

Aviation in Africa - The 26th International
Air and Space Show and the Developing
Countries, by Henry Beaubeis, 9 pp.
FRENCH, rpt, Europe Outremer L'Aviation
en Afrique, pp 13-18 June 1965,
DIA LN 230-65 A

Scientific
Aerospace (Contd)

Heat Flux at the Leading Edge of a Strongly Swept Hypersonic Wing, by R. Michel, D. Vinh-Hung. FRENCH, rpt, International Council of the Aeronautical Sciences, Fourth Congress, Paris, 24-28 August 1964, Paper No. 64-561. Dep* of Navy Tr 4456/APL/JHU T-1580

Wind-Tunnel Tests of the Ground Effect on Aircraft Models, by A. de Sievers. FRENCH, rpt, Paper Presented at Conference on Applied Aerodynamics, Organized by AFITA (ENSA) Paris, November 12-13, 1964. NASA TT F-9709

Present Possibilities for a Theoretical Study for an Ejector Exhaust Nozzle, by J. -M Hardy, J. Delery. FRENCH, rpt Paper Presented at the Meeting of AGARD Specialists on Aerodynamics of Group Propulsion, AEDC, Tullahoma, 25-28 October, 1965. *NASA TT F-9870

Recent Advances in Ceramic Materials Applicable in Space Technology, by J. Schmitt. FRENCH, rpt, Paper Presented at the Seventh International Aeronautics Congress, AFITAE, Paris, June 14-16, 1965. NASA TT F-9575

Working Conditions of the Internal Boundary Layer Bleed of an External Supersonic Compression Air Intake, by J. Leynaert. FRENCH, rpt, Paper Presented at the AGARD Specialists' Meeting on the Aerodynamics of Power Plant Installation, A.E.D.C. Tullahoma, Oct 25-28, 1965. NASA TT F-9869

Project of a High-Energy Standard Propulsion Unit for the Eldo-B Launch Vehicle, by O. Stumpf. GERMAN, rpt, Paper Presented at the 5th European Spaceflight Symposium, Munich, July 19-22, 1965. NASA TT F-9708

Scientific
Aerospace (Contd)

Physiological Reactions of Man Subjected to Accelerations Under Spaceflight Conditions, by P. V. Vasil'yev, A. R. Kotovskaya. GREEK, rpt, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965. NASA TT F-9597

Theoretical Problems of Constructing Artificial Ecological Systems by A. A. Rubin, A. S. Fokht. GREEK, rpt, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965. NASA TT F-9590

Problem of Normalizing Life-Support Noises in Spacecraft Cabins During Prolonged Flights, by Ye. M. Yuganov et al. GREEK, rpt, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965. NASA TT F-9596

Measurement of Stress Fatigue in Flight, by J. P. Weibel, FRENCH, rpt, Presented at the Meeting of International Committee on Aeronautical Fatigue in Munich, June 1965, *AEC EDC March 8, 1966

Scientific
Agriculture

The Interrelationships of Trees and Shrubs in Shelterbelts, by A. A. Romanov, 6 p.
RUSSIAN, per, Agrobiologiya, No 2 (116), 1959, pp 252-257.
*CFSTI TT 66-51086

Nest Sowings of Oak in Shelterbelts of the Teaching and Experimental Farm of the Builyshev Agricultural Institute, by G. P. Shestoporov, 10 p.
RUSSIAN, per, Agrobiologiya, No 2, (134) 1962, pp 258-267.
*CFSTI TT 66-51080

On the Transfer of Mineral Nutrients from One Plant to Another Owing to Interaction Between Their Root Systems, by I. N. Rahtenko.
RUSSIAN, per, Botanicheskii Zhur, Vol XLIII, No 5, 1958, pp 695-701.
*CFSTI TT 66-51102

Microclimatic Conditions in Dense Epilobium Angustifolium, by V. V. Protopopov.
RUSSIAN, per, Botanicheskii Zhur, Vol XLIV, No 8, 1959, pp 1143-1148.
*CFSTI TT 66-51102

The Microclimate of Plants, by V. V. Kryuchkov.
RUSSIAN, per, Botanicheskii Zhurnal, Vol XLV, No 3, 1960, pp 321-324.
*CFSTI TT 66-51102

Train With the Radiometric Method of Determining Photosynthesis in Forestry, by S. Sh. Chitashvili.
RUSSIAN, per, Botanicheskii Zhurnal, Vol XLVIII, No 3, 1963, pp 395-402.
*CFSTI TT 66-51102

Propagation of Horticultural Forms of Trees and Shrubs by Seed, by G. G. Kucheneva, 6 p.
RUSSIAN, per, Byulleten' Glavnogo Botanicheskogo Sada, No 41, 1961, pp 101-106.
*CFSTI TT 66-51085

Scientific
Agriculture (Contd)

The Effect of Alnus Incana on Grassy Vegetation, by V. A. Smirnova, and P. E. Sorogovets, 5 p.
RUSSIAN, per, Byulleten' Instituta Biologii za 1959. Akademii Nauk Belorusskoi SSSR, No 5, 1960, pp 58-62.
*CFSTI TT 66-51091

Intraspecific Interrelationships in Trees During the Early Periods of Growth, by V. G. Nikolaevskii, 9 p.
RUSSIAN, per, Byulleten Moskovskogo Obshchestva Ispytateli Priorody, Otel Biologii, Vol LXVI, No 1, 1961, pp 80-88.
*CFSTI TT 66-51084

A Method of Investigating Root Pressure in Trees, by K. N. Rangelov, 4 p.
RUSSIAN, per, Doklady Bolgarskoy Akademii Nauk (Sofiya), Vol XIV, No 4, 1961, pp 381-384.
*CFSTI TT 66-51092

Effect of Black Alder (Alnus Glutinosa Gaertn) on Productivity of Canadian Poplar (Populus Canadensis Mch), by G. I. Red'ko, 4 p.
RUSSIAN, per, Dopovidi Akademii Nauk Ukrain'skoi Radian'skoi Sotsialistichnoi Respubliki, No 3, 1958, pp 343-346.
*CFSTI TT 66-51093

The Present State of Dokuchaev's Theory of Soil Zonation and of L. I. Prasadov's Scientific Ideas about Soil Provinces and Their Significance to the Theory of Delineation of Natural Regions, by I. P. Gerasimov, 8 p.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 4, 1958, pp 3-10.
*CFSTI TT 66-51104

Certain Results of Heat-Balance Observations in a Deciduous Forest, by Yu. L. Rauner, 8 p.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR, Seriya Geograficheskaya, No 5, 1958, pp 79-86.
*CFSTI TT 66-51099

Scientific
Agriculture (Contd)

Problems Relating to the Development and Distribution of Agriculture in the Mongolian People's Republic, by D. A. Chumichev. RUSSIAN, per, Izv. Akad. Nauk SSSR; Seriya Geograficheskaya, No 1, Jan-Feb, 1964, pp 14-23.
ACSI I-8487-C
2204050265

Utilization of Mycorrhiza by Sowing of Oak at Arid Conditions in Oblast (District) of Saratov, by I. V. Krasovskaya and A. D. Smirnova, 9 p. RUSSIAN, per, Les i Step', Vol II, No 2, 1950, pp 29-37.
*CFSTI TT 66-51081

Simazin - An Effective Herbicide for Weed Control in Forest Plantations, by V. P. Bel'kov, I. V. Shutov. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XIV, No 5, 1961, pp 25-27.
*CFSTI TT 66-51103

The Cultivation of Libiodendron Tulipifera in the USSR, by O. T. Istratova. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No 3, 1962, pp 27-28.
*CFSTI TT 66-51103

Foliar Fertilizing of Conifer Seedlings, by V. K. Asanova. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No VII, 1962, pp 32-34.
*CFSTI TT 66-51103

Foliar Fertilizing of Seedlings and Young Plantations, by A. V. Savina. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No 10, 1962, pp 36-37.
*CFSTI TT 66-51103

Pretreatment of Conifer Seeds With Ultra-Violet and Solar Rays, by V. V. Gribkov. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No 11, 1962, pp 36-38.
*CFSTI TT 66-51103

Scientific
Agriculture (Contd)

The Effect of Density on the Current Increment of Scots Pine Stands, by V. V. Zagreev. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No IX, 1962, pp 42-47.
*CFSTI TT 66-51103

Root Grafting in Nest-Planted Scots Pine Plantations in the Forest Zone, by N. V. Podzorov. RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No 6, 1962, pp 54-56.
*CFSTI TT 66-51103

Evaporation From Plants and From the Free Peat Soil Surface, K. Ya. Kozhanov, 9 p. RUSSIAN, per, Meteorologiya i Gidrologiya, No 6, 1938, pp 113-122.
*CFSTI TT 66-51077

Preliminary Results of the Discussion of the Problems of Soil Classification in the Journal: Pochvovedeniye in 1955-1956, by N. N. Rozov, 9 p. RUSSIAN, per, Pochvovedeniye, No 4, 1957, pp 71-79.
*CFSTI TT 66-51106

The Problem of Organization of Work on Nomenclature, Systematics, and Classification of Soils, by A. A. Rode, 7 p. RUSSIAN, per, Pochvovedeniye, No 9, 1957, pp 89-95.
*CFSTI TT 66-51105

Birds of the Soviet, Vol 6, by G. P. Dement'ev. RUSSIAN, bk, Ptitsy Sovetskogo Soiuza, T. 6, Moskva, Sovetskaya Nauka, 1954, 803 pp.
*CFSTI TT 66-51069

Calculating Seepage Through Earth Dams, by A. A. Uginchus. RUSSIAN, bk, Raschet Filtratsii Cherez Zemlianye Plotiny, Moscow, 1960, 143 pp.
*CFSTI
TT 66-51050

Scientific
Agriculture (Contd)

Protective Forestation and the Increase of Profitability of Farming, by A. A. Komlev, 3 p.
RUSSIAN, per, Sel'skoe Khozyaistvo Povolzh'ya, Vol VI, No 12, 1960, pp 43-45.
*CFSTI TT 66-51094

The Function of the Sense Organs of Fish in Different Ecological Conditions as a Factor in Their Behavior, by Yu. P. Frolov.
RUSSIAN, per, Trudy Soveshchaniy Ikhtiologicheskoi Komissii, Moskva, Akademiya Nauk SSSR, No 8, 1958, pp 15-22.
*CFSTI TT 66-51057

The Influence of Shelterbelts on the Increase in Fertility of Solonetz-Type Chesnut Soils, by L. T. Zemlyanitskii, 6 p.
RUSSIAN, per, Vestnik Sel'skokhozyaistvennoi Nauki, Vol IV, No 12, 1959, pp 65-70.
*CFSTI TT 66-51087

Service Lives of Machines and Depreciation in Agriculture, by V. Antoshkevich, 16 pp.
RUSSIAN, per, Voprosy Ekonomiki, No 11, Nov 1965, pp. 64-74.
JPRS 34110

Procedure for Drying, Dehydration and Calcination of Finely Divided Materials, by A. P. Baskakov.
RUSSIAN, Patent 156,682, Issued Aug 28, 1963, Applied March 16, 1961.
*AEC
EDC April 15, 1966

Twelve Thousand Feddans of Muddy Land Discovered at the Heart of the Desert, by Said Abdulghani, 5 pp.
ARABIC, np, al-Ahram, 21 Jan 1966, p. 5.
JPRS 34363

First National Conference on the Manufacturing Techniques of Agricultural Machinery, by Yang Chen-sheng (2799 2132 5116), 5 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 836-838.
JPRS 33947

Scientific
Agriculture (Contd)

Journal for Agricultural Research, 1,000 p.
CROATIAN, bk, Arhiv za Poljoprivredno Nauke, 1966. 5 issues per year.
*CFSTI TT 66-59005

Q-fever in Cotton Spinners, by H. Prix.
CZECH, per, Prakticky Lekar, No 40, 1960, pp 1085-1088.
*ACSI 1-9328
ID 2204014366

Improvements in Tools for Tilling the Land.
FRENCH, pat, Patent No 982,655.
Dept of Comm
Patent Office

Fish Offal in Pig Feeding. III. Fish Silage "Siloryb" - From Fish Offal as Fodder in Pig Fattening, by Cz. Lewicki, 10 p.
POLISH, per, Foczniki Nauk Rolniczych, Ser. B - Zootechnics, Vol 83, No 1, 1963, pp 135-144.
*CFSTI TT 66-57057

Application of Ascorbic Acid and Alginian Gel in Freezing of Sprat, by Andrzej Gora.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12 (B) 1964, pp 71-90. 20 p.
*CFSTI TT 66-57048

The Mechanical Resistance of Fresh Baltic Herring, by Damazy J. Tilgner. 9 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12 (B), 1964, pp 117-125.
*CFSTI TT-66-57065

Scientific
Biological & Medical Sciences

Air Ionization and its Hygienic Importance,
by A. A. Minkh, 102 pp.
RUSSIAN, bk, Moscow, 1958. 9699219-V
Dept of Navy/ONI Tr No 628

Automatic Recognition of Speaking
Persons, by G. S. Ramishvili, 12 pp.
RUSSIAN, per, Ak Nauk GRUZSSR,
Soobshcheniya, Vol XXXVI, No 2, 1964,
pp 279-286. 9699112
FTD-TT-65-1079

Experience With Ultrasonic Treatment of Certain
Gynecological Diseases, by I. F. Zhordania,
T. D. Dzidziguri, 11 pp.
RUSSIAN, per, Akush. Ginek, Vol XXXIX, 1963,
pp 88-92.
Dept of Navy Tr 4448/NMS 1033

The Connection between Motor Theory and the
General Problem of Speech Discrimination, by
V. I. Galunov and L. A. Chistovich, 17 pp.
RUSSIAN, per, Akusticheskiy Zhurnal, Vol XI,
No 4, Oct-Dec 1965, pp. 417-426.
JPRS 34106

Administration of Polyvinylpyrrolidone for
Prolongation of the Effect of Monomycin in
Infectious Foci, by V. A. Kochetkova, 5 pp.
RUSSIAN, per, Antibiotiki, Vol X, No 12, Dec
1965, pp. 1118-1121.
JPRS 34190

Flora USSR, Vol XVII, Families, 121-133.
RUSSIAN, bk, Botanicheskii Institut
Akademiya Nauk SSSR, Moskva, 1952,
p. III-XXIX, pp 1-802.
*CFSTI TT 66-51066

Alphabetic Index to Vols I-XXX,
Flora USSR.
RUSSIAN, bk, Botanicheskii Institut
Akad Nauk SSSR, Moskva, Nauka 1964,
262.
*CFSTI TT-66-51065

Nitrogen-Fixing Nodules on the
Roots of Fossil Alder, by M. N. Karavaev.
RUSSIAN, per, Botanicheskii Zhurnal
Vol XLIV, No 7, 1959, pp 1000-1001.
*CFSTI TT 66-51102

Scientific
Biological & Medical Sciences (Contd)

Phospholipid Metabolism in the Rat Brain
during Hypoxia and during the Post-Hypoxic
Period, by V. Ya. Dvorkin, 5 pp.
RUSSIAN, per, Byulleten' eksperimental'noy
biologii i meditsiny, Vol LX, No 11, Nov
1965, pp. 50-53.
JPRS 34191

A Method for Recording Minute Heart Volume
in Rabbits Using Phosphorus-32, by K. M.
Ester, V. I. Kandror, 6 pp.
RUSSIAN, per, Byulleten' eksperimental'noy
biologii i meditsiny, Vol LX, No 11, Nov 1965,
pp. 118-121.
JPRS 34191

Attainments of Present-Day Technology
in Medicine, by Ye. B. Babskiy,
V. V. Parin,
RUSSIAN, bk, Dostozheniya Sovremennoy
Tekhniki v Meditsine, Moscow, 1965,
pp 1-172.
*JPRS/SF-4172

Development of the Morphogenetic Apparatus
of the Scleral Ossicles in the Chick Embryo
Eye, by V. F. Puchkov.
RUSSIAN, rpt, IN Cellular Differentiation
and Induction Mechanisms, Moscow, 1965,
pp 174-192.
HEW NIH 12-22-65

Embryology and Cybernetics, by G. V.
Lopashov.
RUSSIAN, rpt, (IN Cell Differentiation and
Induction Mechanisms, Inst Morf Zhivotnikh
im A. N. Severtsova, AN SSSR Moscow, 1965,
pp 242-270.
HEW NIH 11-18-65

Vitamins of Plants, by A. Urman, 2 p.
RUSSIAN, per, Ekonomicheskaya Gazeta,
No 47, 1965, pp 40-41.
*ACSI I-9308
ID 2204012366

Physiological Principles of a Conditioning
of a Human Organism, by M. Ye. Marshak,
RUSSIAN, bk, Fiziologicheskiye
Osnovy Zakalivaniya Organizma Cheloveka,
Leningrad, 1965, 151 pp.
*JPRS/NY-13204

Best Available Copy

Scientific
Biological & Medical Sciences (Contd)

Spatial Dynamics of the Left Ventricle and Phase Structure of the Cardiac Cycle, by B. L. Karpman, et al.
RUSSIAN, per, Fiziol Zh SSSR imeni I. M. Sechenov, Vol 51, No 7, 1965, pp 832-837.
HEW NIH 1-26-66

Trend of Oxidative Processes in Denervated Muscle with Aging, by F. I. Grishko,
RUSSIAN, per, Fiziol Zh SSSR Sechenov, Vol 51, No 9, 1965, pp 1094-1099.
HEW NIH 12-8-65

Observations on Growth Characteristics, by V. Vlastovskiy, 9 pp.
RUSSIAN, per, Fizkul'tura i Sport, No 1, Jan 1966, pp. 29-31.
JPRS 34396

The Effect of the Gas Medium and Pressure on Body Functions, by M. P. Brestkin.
RUSSIAN, bk, Funktsii Organizma v Usloviyakh Izmenennoi Gazovoi Sredy, No 3, 1964, 290 pp.
NASA TT F-385
CFSTI TT 65-50136

Participation of Bone Marrow in the Oxidation of Benzene, by I. D. Gadaskina, Zh. I. Abramova, T. P. Vikhorskaya, 8 pp.
RUSSIAN, per, Gigiyena Truda i Professional'nyye Zabolevaniya, No 12, Dec 1965, pp. 3-7.
JPRS 34258

Summaries of Articles from Gigiyena i Sanitariya, 5 pp.
RUSSIAN, per, Gigiyena i Sanitariya, No 9, Sept 1965, pp. 111, 116, and 117.
JPRS 34356

Main Results of Scientific Research in 1964 on the Hygiene of Children and Adolescents, 6 pp.
RUSSIAN, per, Gigiyena i Sanitariya, No 11, Nov 1965, pp. 72-75.
JPRS 34285

The Hypophysis and Adrenals in the Presence of Radiation Injuries to the Organism, by V. I. Kandror, 21 pp.
RUSSIAN, rpt, Gipofiz i Nadpochechniki pri Radiatsionnykh Porazheniyakh Organizma, 1965.
JPRS 34120

Scientific
Biological & Medical Sciences (Contd)

Immunology of Rheumatism, by V. I. Ioffe.
RUSSIAN, bk, Immunologiya Revmatizma, Chapt 2, 1962, pp 81-108.
*CFSTI
TT 66-51031

Immunology of Rheumatism, by V. I. Ioffe.
RUSSIAN, bk, Immunologiya Revmatizma, Chapt 3, 1962, pp 126-161.
*CFSTI
TT 66-51031

Discharge Coefficient of Swirl Injectors, by R. B. Akhmedov, et al.
RUSSIAN, per, Iz Ak Nauk Uzbek SSR, Ser Tekh Nauk, Vol IX, No 1, 1965, pp 72-76.
NASA TT F-9726

Determining the Optimum Heating Rate for Certain Bodies, by A. A. Shevelev, 11 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Ener, No 11, 1961, pp 77-83. 9699644
FTD-TT-65-1810

Early Diagnosis of Acute Radiation Sickness (Selected Articles), 237 pp.
RUSSIAN, bk, K Voprosam Ranney Diagnostiki Ostroy Luchevoy Bolezni, (Sbornik Nauchnykh Rabot), 1962, pp 1-4; 16-28; 62-94; 103-139; 147-168, and 174-232.
9699413-V
FTD-TT-65-589

Main Results of Scientific Research in 1964 on the Physiology and Pathology of the Cardiovascular System and Respiration, by V. V. Parin. 13 pp.
RUSSIAN, per, Kardiologiya, Vol 5, No 6, Nov/Dec 1965, pp. 78-84.
JPRS 34179

Bone Tumor of Skull, by F. Filipov, et al.
RUSSIAN, per, Khirurgiya (Sofia), Vol 14, 1961, pp 294-296.
HEW NIH 1-5-66

Scientific
Biological & Medical Sciences (Contd)

Proceedings of the Twenty-Eighth All-Union Convention of Surgeons, by Prof. V. A. Ivanov, 10 pp.
RUSSIAN, per, Khirurgiya, No 12, 1965, pp. 3-9.
JPRS 34261

The Cases of Intralaboratory Toxoplasma Infection, by Ye. P. Kovaleva, T. F. Kogoy, M. G. Smaykina F. D. Zabugin, 6 pp.
RUSSIAN, per, Klinicheskaya Meditsina, Vol XLIII, No 12, Dec 1965, pp. 121-125.
JPRS 34243

Materialistic Dialectics and Modern Biology, by I. Frolov, 15 pp.
RUSSIAN, per, Kommunist, No 2, Jan 1966, pp. 61-70.
JPRS 34499

Philosophical Problems of Contemporary Biology, by T. Loyt, 11 pp.
RUSSIAN, per, Kommunist Estonii, No 10, Oct 1965, pp. 18-26.
JPRS 34464

Preservation and Homotransplantation of Tissues, by A. P. Brodskiy, 36 pp.
RUSSIAN, bk, Konservirovaniye i Gomotransplantatsiya Tkany, 1964, pp. 88-99, 100-131
JPRS 33995

Problems of Suspended Animation for Space Flights, by N. Sirotnin, 5 pp.
RUSSIAN, np, Krasnaya Zvezda, 19 Dec 1965, p. 4.
JPRS 34093

Granular Herbicides and Their Use, by A. V. Khotymovich, G. P. Samnikov.
RUSSIAN, per, Lesnoe Khozyaistvo, Vol XV, No 1, 1962, pp 43-44.
*CFSTI TT-66-51103

Production of Toxoplasmosis Antigen by the Tissue Culture Method, by G. T. Atkinshina.
RUSSIAN, per, Med Parazit, Vol 33, No 6, 1964, pp 661-665.
HEW NIH 1-17-66

Scientific
Biological & Medical Sciences (Contd)

Present Conditions in the Soviet Medical Industry, 9 pp.
RUSSIAN, per, Meditsinskaya Promyshlennost', No 11, Nov 1965, pp. 3-8.
JPRS 34229

Tasks of Meditsinskaya Promyshlennost' SSSR (Medical Industries USSR) in Light of Decisions at September Plenum, CC CPSU, 5 pp.
RUSSIAN, per, Meditsinskaya Promyshlennost' SSSR, No 11, 1965, pp. 62-64.
JPRS 34220

Administrative Changes Anticipated at Enterprises of the Soviet Medical Industry, 7 pp.
RUSSIAN, per, Meditsinskaya Promyshlennost' SSSR, No 12, 1965, pp. 3-7.
JPRS 34188

Toxicity of Modern Radioactive Luminous Compounds, by J. Halik, 7 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol X, No 10, Oct 1965, pp. 15-19.
JPRS 33958

Distribution of Certain Radioactive Substances upon Their Inhalation, by G. K. Korolev, 12 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol X, No 10, Oct 1965, pp. 75-80.
JPRS 33958

First Scientific Session of the Institute of Radiology of the Academy of Medical Sciences USSR, by Yu. G. Yelashov and L. I. Uklonskaya, 9 pp.
RUSSIAN, per, Meditsinskaya Radiologiya, Vol X, No 10, Oct 1965, pp. 84-93.
JPRS 33958

Methodological Problems of Sanitary and Medical Statistics, by A. M. Merkov. 228 pp.
RUSSIAN, bk, Metodologicheskiye Voprosy Sanitar'noy i Meditsinskoy Statistiki, Moscow, 1965, pp 1-228.
*JPRS/ NY-13205

Scientific
Biological & Medical Sciences (Contd)

Open-Heart Surgery, 321 pp.
RUSSIAN, bk, Operatsii na Otkrytom
Serdtshe, Moscow, 1961, 246 pp. 9699835-V
FTD-TT-65-660

Organization and Methods of Reporting on
Birds and Harmful Rodents.
RUSSIAN, bk, Organizatsiya i Metody Ucheta
Ptits i Vrednykh Gryzynov, Moscow, 1963,
256 pp.

*CFSTI
TT 66-51055

Organization of Labor of Medical Personnel,
by B. M. Matsko. 83 p.
RUSSIAN, BK, Organizatsiya Truda Meditsin-
skogo Personala, 1962, 88 p. 9699942
FTD-TT-65-970

Principles of Molecular Biology; Biology
of Malignant Growth, by V. A. Engel'gardt,
115 pp.
RUSSIAN, bk, Osnovy Molekulyarnoy Biologii;
Biologiya Zlokachestvennogo Rosta, 1965,
256 pp.
JPRS 33946

Fundamentals of Paleontology. Cephalaspids,
Fish, by D. V. Obruchev. 520 p.
RUSSIAN, bk, Osnovy Paleontologii. Beschely-
ustnye Ryby, 1964.
*CFSTI TT 66-51147

Normal Standards of the Sphygmogram and
the Pulse Wave Velocity in Peripheral
Blood Vessels, by M. A. Abrikosova,
V. L. Karpman.
RUSSIAN, per, Patol Fiziol i Eksperim,
Terapiya, Vol III, No 6, 1959,
pp 47-53.
NASA TT F-9578

Biochemistry and the Food Industry,
by A. I. Oparin.
RUSSIAN, per, Priroda, No 11, 1965, pp 17-25.
*ACSI I-9655
ID 2204021866

Life (Its Present Content and Concept), 9 pp.
RUSSIAN, per, Priroda, No 11, 1965, pp. 88-93.
JPRS 34259

Scientific
Biological & Medical Sciences (Contd)

The Cosmos and Intelligent Creatures, by F.
A. Tsitsin, 11 pp.
RUSSIAN, per, Priroda, No 11, 1965, pp. 94-
101.
JPRS 34259

Life Span of Cr⁵¹-labeled Erythrocytes of
Donor Blood in the Patient's System After
Surgery Under Conditions of Artificial
Circulation, by E. N. Riumina, et al.
RUSSIAN, per, Probl Gemat, Vol 7, No 10,
1965, pp 38-42.
HEW NIH 11-24-65

Pathological Changes in the Kidneys During
Fatal Complications Associated With the
Transfusion of Rh-incompatible Blood, by
O. A. Zakharova.
RUSSIAN, per, Probl Gematol, Vol 9, No 10,
1964, pp 47-49.
HEW NIH 1-1-66

Results of an Operation Involving Perforation
of the Corpus Callosum in Hydrocephalus of
Children, by M. V. Putsillo, et al.
RUSSIAN, per, Probl Sovr Neirokhir, Vol 4,
1962, pp 25-35.
HEW NIH 11-2-65

Experiences in Conducting Exploratory and
Survey Operations in Eastern Kazakhstan,
by Konoplyantsev, Nikonov, et al, 5 pp.
RUSSIAN, per, Razvedka i Okhrana Nedr,
No 8, pp 50-52, 1965.
ACSI I-8634
ID 2204056965

Annotated Collection of Works Published in
1956 on the Problem of Enumeration of
Population Dynamics, Behavior and
Distribution of Fishes, Marine Mammals,
Commercial Invertebrates, and Algae, and
Their Relationship With Conditions of Their
Existence, by N. S. Romanov.
RUSSIAN, per, Rybnoe Khoz, 1959, 167 pp.
*CFSTI
TT 66-51048

Scientific
Biological & Medical Sciences (Contd)

The Effect of Hypoxemia and Respiratory Acidosis on Electrocardiograms in Chronic cor pulmonale.
RUSSIAN, per, Sbornik Lek, Vol LXVII, 1965, pp 140-145.
Dept of Navy 4554/NMC 1054

Protection of Women's Health in the U.S.S.R., by O. K. Nikonchik, 5 p.
RUSSIAN, per, Sovetskoy Zdravookhraneniye, No 2, 1965, pp 3-7.
Dept of Comm
Bureau of Census

Enamel Solubility of Deciduous and Permanent Teeth, by V. S. Borzhim, R. F. Sinitsyn, 10 pp.
RUSSIAN, per, Stomatologiya, No 4, 1963, pp 11-15. 9699627
FTD-TT-65-1357

The Mechanical Tantalum Suture in Gastric Resections, by Yu. Ya. Gritsman, 75 pp.
RUSSIAN, rpt, Tantalovyy Mekhanicheskiy Shov pri Re ektsiyakh Zheludka, Moscow, 1961, 80 pp. 9699833
FTD-TT-65-971

Cybernetics and Society, by E. Kol'man, 5 pp.
RUSSIAN, per, Tekhnika molodezhi, No 11, Nov 1965, pp. 2-3.
JPRS 34309

A Proposal for An Electronic Trainer By the Laboratory for Sports Cybernetics, by Oleg Litvinenko and Valeriy Morozov, 5 pp.
RUSSIAN, per, Tekhnika Molodezhi, No 12, 1965, pp. 35-36.
JPRS 34324

Trematodes of Animals and Man (Fundamentals of Trematodology, Volume XX), by K. I. Skryabin. 731 pp.
RUSSIAN, bk, Trematody Zhivotnykh i Cheloveka (Osnovy Trematodologii), Tom XX, 1962, 563 pp. 969941
FTD-TT-65-393

Scientific
Biological & Medical Sciences (Contd)

Contamination of the Lower Courses of the Nyamias River by Sewage from the Pulp and Paper Industry, by Yuryavichyus Laumyanskas, et al. 13 p.
RUSSIAN, per, Trudy Akademii Nauk Litovskoy SSR, Seriya B, 3 (42), 1965, pp 121-133.
ACSI I-9072
ID 2204070466

Biology and Economic Importance of Gulls and Terns of Aquatories in the South of the U.S.S.R., by T. L. Borodulina.
RUSSIAN, per, Trudy Inst Zhivotnykh im A. Severtsova, No 32, 1960, pp 3-130.
*CFSTI
TT 66-51054

Contributions to the Parasitology of Fishes of the Northern Seas of the U.S.S.R., by Yu. I. Polyanskiy.
RUSSIAN, per, Trudy Inst Zool, No 19, 1955, pp 5-170.
*CFSTI
TT 66-51047

Mammals of the Caucasians, by N. K. Vereshchagin.
RUSSIAN, per, Trudy Inst Zool, 1959, 703 pp.
*CFSTI
TT 66-51143

On the Morphology of the Connective Tissue of Ixodid Ticks, by V. A. Tsvileneva.
RUSSIAN, per, Tr Inst Zool Parasit Akad Nauk Tadzh SSR, Vol 24, 1963, pp 171-177.
HEN NIH 12-5-65

Methods for Determining the Specific Radioactivity of Phytol by Means of Paper Chromatography, by Ye. M. Stanishevskaya.
RUSSIAN, per, Vestnik Akad Nauk BSSR, Ser Biyol Nauk, No 2, 1962, pp 62-70.
HEN NIH 11-15-66

Dynamics of the Mental Condition of Patients Following Clinical Death of Short Duration, by V. V. Kovalev.
RUSSIAN, per, Vestn Akad Nauk SSSR, Vol 17, No 7, 1962, pp 17-22.
HEN NIH 11-23-65

Scientific
Biological & Medical Sciences (Contd)

Treatment of Porphyria Cutanea Tarda,
by I. I. Il'in.
RUSSIAN, per, Vest Derm Vener, Vol X,
1963, pp 42-47.
*Dept of Navy/NMC

Reanimation in Surgery, by B. V. Petrovskiy
and R. N. Lebedeva, 10 pp.
RUSSIAN, per, Vestnik Khirurgii imeni I. I.
Grekova, Vol 95, No 10, Oct 1965, pp. 3-9.
JPRS 33957

Treatment of Gunshot Wounds, by A. N. Berkutov
and V. P. Koldanov, 11 pp.
RUSSIAN, per, Vestnik Khirurgii im. I. I.
Grekova, Vol 95, No 11, 1965, pp. 3-10.
JPRS 33970

International Symposium on Problems Concerning
the Use of Deep Hypothermia in the Treatment
of Terminal States, by T. V. Titova,
5 pp.
RUSSIAN, per, Vestnik Khirurgii im. I. I.
Grekova, Vol 95, No 11, 1965, pp. 125-127.
JPRS 33971

Pressing Problems in Modern Genetics: A
Summary of the Seminar in Genetics, by A. A.
Inozemtsev, 9 pp.
RUSSIAN, per, Voprosy Filosofii, No 11, 1965,
pp. 155-159.
JPRS 33935

On the Importance of the Herring-Gull
in the Fishing of the Caspian Sea,
by N. A. Gladkov, V. S. Zaletayev.
RUSSIAN, per, Voprosy Ikhtiologii,
No 4, 1955, pp 180-187.
Dept of Interior
SH211 E82
No 590

The Significance of Certain Piscivorous
Birds in the Fishing of the Southeastern
Azov Area, by A. A. Vinokurov,
E. B. Dubrovskiy.
RUSSIAN, per, Voprosy Ikhtiologii, No 8,
1957, pp 191-202.
Dept of Interior
SH211 E82
No 589

Scientific
Biological & Medical Sciences (Contd)

On the Premature Assumption of Active
Swimming by Young Chum Salmon, by
A. Kolgayev.
RUSSIAN, per, Voprosy Ikhtiologii, Vol III,
No 28, 1963, pp 561-562.
Dept of Interior
QH301 C273
No 545

Evaluation of the Effectiveness of
Chrysomallin Under Experimental Conditions,
by V. V. Silant'ev.
RUSSIAN, per, Vop Onkol, Vol 11, No 2,
1965, pp 52-57.
HEW NIH 11-26-65

Utilization of Biochemical Indicators in the
Evaluation of Possible Carcinogenic Properties
of Admixtures to Food Products, by B. L.
Rubenchik, 12 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV, No
5, 1965, pp. 3-11.
JPRS 34215

Investigation of the Effect on the Organism
of Warm-Blooded Animals of Admixtures and
Additions Contained in the Food Products of
Hungary, by R. Tarjan, L. Kallai, T. Kemeny,
E. Sandi, and G. Gonda, 10 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV,
No 5, 1965, pp. 11-17.
JPRS 34215

Effect of the Pesticide Thiazon (Of the Mylon
Type) on the Organism of Warm-Blooded Animals
in Acute and Subacute Tests, by Z. L. Voloshchenko,
8 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV,
No 5, 1965, pp. 18-22.
JPRS 34215

The Problem of Goitrogenic Properties of
Certain Vegetables Grown in Uzbekistan, by
G. M. Makhkamov and A. Latipov, 10 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV,
No 5, 1965, pp. 23-29.
JPRS 34215

Best Available Copy

Scientific
Biological & Medical Sciences (Contd)

Characteristics of Nutrition of the Kolkhoz Population of Chumlaki Village, Gurdzhaanskiy Rayon, Georgian SSR, by L. I. Avsharov, I. A. Chiboshvili, D. A. Macharashvili and R. G. Antelidze, 5 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV, No 5, 1965, pp. 33-35.
JPRS 34215

National Conference of the Hygiene of Nutrition, by T. S. Medoks and Ye. G. Sharina, 5 pp.
RUSSIAN, per, Voprosy Pitaniya, Vol XXIV, No 5, 1965, pp. 89-92.
JPRS 34215

Formation of Instrumental Activity in Small Children, by S. L. Novoselova, 29 pp.
RUSSIAN, per, Voprosy Psikhologii, pp 21-32.
Dept of Navy Tr 4501/NMS 1044

Problems in Theoretical Cybernetics, by V. M. Glushkov, 199 pp.
RUSSIAN, bk, Voprosy Teoreticheskoy Kibernetiki, 1965, pp. 1-211.
JPRS 33991

Experiment of Isolating Tick-borne Encephalitis Virus From Vectors in Tissue Culture of Chick Fibroblasts, by V. N. Iagodinskii, et al.
RUSSIAN, per, Vop Virus, Vol 7, No 4, 1962, pp 39-42.
HEW NIH 12-20-65

A Study of the Correlation Between the Pathogenicity of Viruses of the Tick-borne Encephalitis Group for Animals and Peculiarities of their Multiplication in the Organism - 2nd report, by V. V. Pogodina, et al.
RUSSIAN, per, Vop Virus, Vol 1, 1965, pp 30-36.
HEW NIH 12-17-65

Study of the Variability of the Tick-borne Virus of Encephalitis. Report I. Long Cultivation of Viruses of the Tick-borne Encephalitis Group in Renalcell Culture of Pig Embryo and in Chick Embryos, by O. G. Andzhaparidze, et al.
RUSSIAN, per, Vop Virus, No 2, 1965, pp 165-167.
HEW NIH 12-15-65

Scientific
Biological & Medical Sciences (Contd)

Concerning the Possibility of Transformation of Variola Major Virus into the Vaccinal Virus in Experiment, by V. D. Solov'ed.
RUSSIAN, per, Vop Virus, Vol 3, 1965, pp 307-315.
HEW NIH 10-22-65

The Results of the Typing of Monkey Type-M Adenoviruses, by M. A. Kostukov.
RUSSIAN, per, Vop Virus, No 4, 1965, pp 483-486.
HEW NIH 12-1-65

Tenth Conference of the I. P. Pavlov All-Union Physiological Society, Yerevan, 1964, 312 pp.
RUSSIAN, bk, X Sbezd Vsesoyuznogo Fiziologicheskogo Obshchestva imeni I. P. Pavlova, Yerevan, 1964, 180 pp.
9699836-V
FTD-TT-65-46

Organization of Medical Service for Members of Soviet Antarctic Expeditions, by A. L. Matusov, 5 pp.
RUSSIAN, per, Zdravookhraneniye Rossiyskoy Federatsii, No 10, Oct 1965, pp. 7-9.
JPRS 34146

Bernhard Schmidt - Outstanding Twentieth-Century Optician, by P. V. Myursepp, 15 pp.
RUSSIAN, per, Zemlya i vselennaya, No 6, Nov-Dec 1965, pp. 45-52.
JPRS 34145

Problem of Intermenstrual Pains (Mittelschmerz), by S. M. Tolmazova.
RUSSIAN, per, Zh Akush Zhensk Bol, Vol 39, No 5, 1928, pp 605-607.
HEW NIH 12-11-65

Epidemiological Efficacy of the Live Influenza Vaccine during the A2 and B Influenza Outbreaks in 1962, by A. A. Smorodintsev, G. I. Dokuchayev, P. N. Minichev, N. A. Filippov and O. M. Chalkina, 10 pp.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 10, Oct 1965, pp. 54-61.
JPRS 33994

Scientific
Biological & Medical Sciences (Contd)

Plastics and Synthetic Polymers in Medical Microbiology, by V. N. Tarasov.
RUSSIAN, per, Zhurnal Mikrobiologii, Epidemiologii i Immunobiologii, No 12, 1965, pp 121-126.
*ACSI I-9317
ID 2204013266

Influence of Rotation Training of Motor Conditioned Reflexes in Rats, by S. I. Nudman, 13 pp.
RUSSIAN, per, Zhur Vyssh Nervnoy Deyatel, Vol XIV, No 5, 1964, pp 885-891. 9699832
FTD-TT-65-969

Key to the Insects of the European USSR, Vol I.
RUSSIAN, per, Zoologicheskii Institut Akademii Nauk SSSR, Moskva 1964, Vol LXXXIV, 935p.
*CFSTI TT 66-51068

Origin and Main Stages of the Evolution of Arthropods, by A. G. Sharov, 22 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol XLIV, No 7, 1965, pp. 963-979.
JPRS 34360

Use of Infrared Rays in Stereoscopic Microscopy, by G. S. Pervomayskiy, Ya. M. Varanovskiy, and V. P. Shcherbina, 5 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol XLIV, No 7, 1965, pp. 1075-1078.
JPRS 34360

Certain Contemporary Problems in the Study of the Population Dynamics of Animals, by G. V. Nikol'skiy, 11 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 44, No 8, 1965, pp. 1131-1138.
JPRS 34376

Structure of Taxonomic Groups and Biological Progress, by V. G. Septner, 23 pp.
RUSSIAN, per, Zoologicheskii Zhurnal, Vol 44, Issue 9, pp. 1291-1307.
JPRS 34374

Scientific
Biological & Medical Sciences (Contd)

The Radiosensitivity of Guinea Pigs with Hypocatalasia with Special Attention to the Significance of Hydrogen Peroxide in the Pathogenesis of Acute Radiation Sickness, by G. Rusey.
BULGARIAN, per, Bulg Ak Nauk, Izv Inst Sravnitelna Patol Domashnite, Vol VIII, 1960, pp 119-129. 9232019
AEC-ANL-Tr-264

Regional Variation of "Angles" of the Shells of Water Snails, by Wang Ching-pang (3769 4842 6721) and Liu Shou-hsi (0491 1108 0823), 6 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 9, 20 Sept 1965, pp. 812-814.
JPRS 33947

Distribution of Vegetable Alkaloids in Plant Life, by Wang Tsung-hsun (3769 1350 6064), 14 pp.
CHINESE, per, Sheng-wu-hsueh T'ung-pao, No 6, Nov 1965, pp. 1-6.
JPRS 33972

Conference Properties of Electromagnetic Radiation, by Wang Chih-Chiang, 37 pp.
CHINESE, per, Wu Li Hsueh Pao, Vol XIX, No 5, 1963, pp 320-335. 9699083
FTD-TT-64-708

Archives of Biological Sciences. 150 to 200 pp.
CROATIAN, bk, Arhiv Bioloskih Nauka.
*CFSTI TT 66-59008

Medical Journal. 600 p.
CROATIAN, Lijecnicki Vjesnik, 1966.
*CFSTI TT 66-59007

Syndrome of Endocrine Exophthalmos, Circumscribed Myxedema and Hypertrophic Osteoarthropathy, by Blaze Brzev, 11 pp.
CROATIAN, per, Med. Glasnik, Vol XVI, 1962, pp 32-34.
Dept of Navy Tr 4446/NMS No 1031

Unusual Presence of Osteoclastoma in os Occipitale of a Child, by R. Kubat.
CZECH, per, Acta Chir Orthop Traum Cech, Vol 28, No 3, 1961, pp 246-247.
HEW NIH 12-27-65

Scientific
Biological & Medical Sciences (Contd)

Model Schema of Heredity Based on the Interaction of Two Recessive Complementary Genes, by H. Drabkova, et al.
CZECH, per, Cesk Psychiat, Vol 60, No 2, 1964, pp 73-80.
HEW NIH 10-16-65

Visualization of Antigens by Means of the Fluorescent Antibodies Method, by Pavel Albrecht.
CZECH, bk, Vizualizacia Antigenov Metodou Fluorescentnych Protilatok Praha, 1963, pp 7-157.
*ACSI-9613
ID 2204021066

Mechanics of the Effect of a Blow on the Skull, by K. Sellier, et al.
DANISH, rpt, IN Excerpta Med Int Congr Series No. 93, IIIRD Int Congr Neurol, 1965, pp 55-61.
HEW NIH 1-18-66

The Pathomorphology of Closed Cranio-cerebral Lesions, by F. Unterharnscheidt.
DANISH, rpt, IN Excerpta Med Int Congr Series no. 93, IIIRD Int Congr Neurol Surg, Copenhagen, 1965, Amsterdam 1965, pp 62-73.
HEW NIH 12-7-65

Hepatotoxicity of Anaesthetics, by Nogens Krostoffersen, 5 p.
DANISH, per, Nordisk Medicin, Vol LXXII, No 36, 3 Sept 1964, pp 1042-1046.
ACSI 1-9107
ID 2204005666

Mucosal Cysts in the Oral Cavity, by J. Floe Moller, 16 pp.
DANISH, per, Tandlaegeblader, Vol LXII, 1958, pp 263-272.
Dept of Navy Tr 4466/NMS 1037

Liver Damage due to Medicines, by L. Schalm, 4 p.
DUTCH, per, Nederlands Tijdschrift Voor Geneeskunde, 107, 1963, pp 2278-2281.
ACSI 1-9106
ID 2204005566

Scientific
Biological & Medical Sciences (Contd)

Method for Treatment and Diagnosis in Cardiology, by D. Durrer, et al.
DUTCH, per, Nederl Tijdschrift voor Geneeskunde, Vol 109, No 2, 1965, pp 1628-1630.
HEW NIH 12-16-65

Process for Preparing Agents to Control Microorganisms and Process for Controlling Microorganisms, by John Ireland,
DUTCH, pat, Patent No 74,766.
Dept of Comm
Patent Office

Observations on Changes in the Basal Temperature of Women, by Helena Tarkiainen.
FINNISH, per, Duodecim, Vol 10, No 10, 1950, pp 733-747.
HEW NIH 10-15-65

The Zinc and Copper Content of Various Organs of the White Rat; a Contribution to the Dithizon-zinc-reaction in Histo-Chemistry, by Rainer Schmidt, et al.
FRENCH, per, Acta Histochem, Vol 19, 1964, pp 1-13.
HEW NIH 10-40-65

The Venous Hypertensions of Splenic Origin. Attempt at Pathogenic Interpretation of Portal Hypertension. 3rd part, by H. Pietri.
FRENCH, per, Ann Chir, Vol 15, No 21-22, 1961, pp 1431-1444.
HEW NIH 10-3-65

Manic-depressive Psychosis and Pituitary Hyperplasia, by Xavier Abely, et al.
FRENCH, per, Ann Medicopsychol, Vol 94, 1936, pp 255-257.
HEW NIH 10-21-65

The Lingual Thyroid - Present Therapeutic Aspect, by M. Mayoff, et al.
FRENCH, per, Ann Otolaryng, Vol 81, 1964, pp 449-460.
HEW NIH 10-18-65

Scientific
Biological & Medical Sciences (Contd)

Comparative Arterial Oscillographic Investigations of the Forearm and Leg in Younger and Older Persons, by W. Warbanov.
FRENCH, per, Compt Rend Acad Bulgare Sci, Vol XVI, No 2, 1963, pp 201-204.
NASA TT F-9759

Selective Growth in Agar of Hamster Cells Transformed by the Polyoma Virus, by Luc Montagnier, et al.
FRENCH, per, Comptes Rendus Acad Sci, Vol 258, 1964, pp 4174-4173.
HEW NIH 11-6-65

Zone Electrophoresis on a Sephadex Base Gel, by Roger Vendrely, et al.
FRENCH, per, Comptes Rendus Acad Sci, Vol 258, No 7, 1964, pp 6399-6402.
HEW NIH 12-13-65

Changes in Pulse Rate Speed in Limbs Due to Age and Occupation, by W. Warbanov.
FRENCH, per, Compt Rend Acad Bulgare Sci, Vol XVI, No 3, 1963, pp 321-324.
NASA TT F-9760

Good Blood Couldn't Lie, or Reflections of a Layman on Blood Groups and Transfusions, by Andre.
FRENCH, per, Concours Med, Vol 87, No 5, 1965, pp 649-654.
HEW NIH 12-18-65

Trench Foot, by Victor Raymond.
FRENCH, per, Jour Chir, Vol XIV, 1918, pp 329-393.
*Dept of Navy/NMC

Ultrathin Sections of Tissues not Embedded After Fixation and Drying in the Air, by Jean-Pierre Tranzer.
FRENCH, per, J. Microscopie, Vol 4, No 3, 1965, pp 319-336.
HEW NIH 12-2-65

Scientific
Biological & Medical Sciences (Contd)

The Use of Lead Citrate for the Electron Microscopic Demonstration of Alkaline Phosphatase, by Jean-Pierre Tranzer.
FRENCH, per, J. Microscopie, Vol 4, No 3, 1965, pp 409-412.
HEW NIH 12-4-65

Treatment of the Trench Foot, by T. Stricker.
FRENCH, per, Me Acad Chir, Vol LVI, 1940, pp 235-242.
*Dept of Navy/NMC

The Prognosis of Untreated Glaucoma, by E. Linner, et al.
FRENCH, per, Nord Med, Vol 68, 1962, p 1401.
HEW NIH 1-13-66

An Original Problem in Aerospace Biology: The Effect of Mechanical Vibrations at the Cellular Level, by P. Grognot et al.
FRENCH, rpt, Paper Presented at the Second International Symposium on Basic Environmental Problem of Man in Space, Paris, June 14-18, 1965.
NASA TT F-350

Venesection With Replacement of Red Blood Corpuscles, by A. Gilbert, et al.
FRENCH, per, Paris Med, Vol 61, No 38, 1926, pp 217-224.
HEW NIH 12-19-65

Factors Determining the Viscosity of the Blood, by A. Larcen, et al.
FRENCH, per, Path et Biol, Vol 13, No 11/12; 13/14, 1965, pp 648-659.
HEW NIH 1-14-66

Ultra Violet Absorption by the Organic Chemical Substances, as Applied to Their Detection and Quantitative Determination in Animal Tissues, by Vincent Brustier, 17 pp.
FRENCH, per, Produits Pharmaceutiques, Vol XVI, No 6, 1962, pp 263-267.
Dept of Navy Tr 4496/NMS 1039

Scientific
Biological & Medical Sciences (Contd)

Trench Foot is an Infected Frostbite,
by E. Chauvin.
FRENCH, per, Rev Chir, Vol LVII, 1919,
pp 793-807.
*Dept of Navy/NMC

Contribution to the Preparation of the Cadaver
Kidneys With View of Preservation of Homografts,
by R. Kuss, 16 pp.
FRENCH, per, Rev. Franc. d'Etudes Clin. & Biol.,
Vol VIII, 1963, pp 1024-1032.
Dept of Navy Tr 4465/NMS 1036

Orpheus' sin in Reverse, by Marie Bonaparte.
FRENCH, per, Rev. Franc Psychanal, Vol 17,
1954, pp 221-228.
HEW NIH 12-10-65

Polyarthritis in Rat With Mycoplasma Arthritis.
III. Typical Signs: The Role of Pneumonia-
Like Organisms, by B. Amor, et al., 6 pp.
FRENCH, per, Soc. Biol. C. R., Vol CLVIII, 1965,
pp 1244-1246.
Dept of Navy Tr 4497/NMS 1040

External Corrective Lens for Direct Appli-
cation to the Eye, by Raymond-Andre Dudregne,
FRENCH, pat, Patent No 1,217,230.
Dept of Comm
Patent Office

Viral Encephalitis in Austria
Caused by Tick-Bite, by Von H. M. Jettmar
GERMAN, rpt, pp 174-179.
ACSI I-8933 E
ID 2204066265

Histochemical Methylation With Methanol
and Thionyl Chloride, by Gunther Geyer.
GERMAN, per, Acta Histochemica, Vol 14,
1962, pp 284-296.
pp 284-296.
HEW NIH 1-16-66

Drainage of the Cerebral Ventricles by
Means of Freely Transplanted Blood Vessels;
Remarks Concerning Hydrocephalus. Part I.,
by Erwin Payr.
GERMAN, per, Arch Klin Chir, Vol 87, No 4,
1908, pp 801-885.
HEW NIH 11-8-65

Scientific
Biological & Medical Sciences (Contd)

How to Produce a New Way for Local Anes-
thesia in the Extremities, by August Bier,
16 pp.
GERMAN, per, Arch Klin Chir, Vol LXXXVI,
1908, pp 1007-1016.
Dept of Navy 4548/NMS Tr 1048

Venous Anesthesia, by August Bier.
GERMAN, per, Berlin Klin. Wschr, Vol XLVI, 1909,
pp 447-489.
*Dept of Navy/NMS

Activation of Amino Acids by the Micro-
somes and the pH-5 Enzyme of Rabbit Reti-
culocytes, by Jacques Kruh, et al.
GERMAN, per, Biochim Biophys Acta, Vol 44,
1960, pp 55-63.
HEW NIH 11-12-66

Oxidation of Sulfite to Sulfate by Oat
Roots, by P. Fromageot, et al.
GERMAN, per, Biochim Biophys Acta, Vol 44,
1960, pp 77-85.
HEW NIH 11-20-65

Carbamyl-phosphate, an Intermediary in the
Degradation of Creatinine by Enzymatic
Extracts of Eubacterium Sarcosinogenum, by
Jekisiel Szulmajster.
GERMAN, per, Biochim Biophys Acta, Vol 44,
1960, pp 173-175.
HEW NIH 11-10-65

Non-enzymic Transamination of Pyridoxal
Phosphate and of Pyridoxamine Phosphate at
Physiological Temperature in the Presence
of Metals, by Jeanne Cattaneo, et al.
GERMAN, per, Biochim Biophys Acta, Vol 44,
1960, pp 543-553.
HEW NIH 11-19-65

Preliminary Study on the Structure of an
Acid α 1- Glycoprotein (Pleuromucoid), by
Roland Bourrillon, et al.
GERMAN, per, Biochim Biophys Acta, Vol 44,
1960, pp 608-609.
HEW NIH 11-7-65

Scientific
Biological & Medical Sciences (Contd)

Enzymatic Cleavage of Serine-t-RNA
Fractions, by F. Melchers, et al.
GERMAN, per, Biochim Biophys Acta, Vol 108,
No 2, 1965, pp 182-193.
HEW NIH 1-21-66

Nucleotide Sequences in Serine-specific
Transfer Ribonucleic Acids, by D. Dutting.
GERMAN, per, Biochim Biophys Acta, Vol 108,
No 2, 1965, pp 194-201.
HEW NIH 1-25-66

The Use of Cadaver Blood for the Purpose of
Transfusion, by Hubert Fischer, 14 pp.
GERMAN, per, Blut, Vol IX, 1963, pp 45-50.
Dept of Navy Tr 4467/NMS No 1038

Contribution to Embryonal Electroencephalography,
by Lykke Aresin, 7 pp.
GERMAN, per, Confinia Neurologica, Vol XXII,
No 2, 1962, pp 121-127.
Dept of Navy Tr 4499/NMS 1042

The Problem of Epileptical Pathogenesis of the
Paroxysmal Tachycardia in Childhood, by
J. Ringel, 9 pp.
GERMAN, per, Cor Vasa, Vol III, 1961, pp 304-310.
Dept of Navy Tr 4444/NMS No 1019

Blood Levels and Excretion of 1-
(p-tolysulfonyl-3-butylurea(D860),
by G. Mohnike and G. Wittenhagen,
GERMAN, per, Deutsche Medizinische
Wochenschrift, Vol LXXXII, 1956,
pp 1336-1337.
Dept of Comm
Patent Office

"Prismatic" Polars of Krapina (Croatia)
in Light of Recent Findings, by
Herbert Fischer.
GERMAN, per, Dtsch Zahnärztl Z, Vol 16,
1961, pp 8-15.
HEW NIH 12-14-65

Scientific
Biological & Medical Sciences (Contd)

Conditions for the Existence of Cotacalcium
Phosphate, Whitlockite and Carbonate Apatite.
A Contribution to the Crystal Chemistry of
Biological Hard Substances, by H. Newesely.
GERMAN, per, Dtsch Zahnärztl Z, Vol 20
1965, pp 754-766.
HEW NIH 1-3-66

Experimental Demonstration of Penicilline
Activity in Mother's Milk, by Bernhard Schmidt,
Harald Modde, 12 pp.
GERMAN, per, Geburtsh. Frauenheilk, Vol XX,
1960, pp 272-278.
Dept of Navy Tr 4502/NMS 1045

On the Influence of Prolonged Bodily
Inactivity on the Blood Sugar Curves
After Oral Glucose Loading, by P. A. Buhr.
GERMAN, per, Helv. Med. Acta, Vol 30,
No 2, 1963, pp 156-175.
HEW NIH 10-6-65

On Focusing on Exchange. IV. Contribution
to the Theory of the Focusing Effect, by
Ernst Schumacher.
GERMAN, per, Helv. Chim Acta, Vol 40,
No 7, 1957, pp 2322-2340.
HEW NIH 10-10-65

Formation of Gas Bubbles in the Organism in
Decompression, by K. G. Muller, S. Ruff.
GERMAN, per, Int. Z. Angew Physiol, Vol XX,
1965, pp 521-544.
*Dept of Navy/NMS

On a Potentiometric Method
for the Determination of Chloride
Concentrations in Sea Water, by
Peter H. Koske.
GERMAN, per, Kieler Meeresforschungen,
Vol XX, Nov 2, 1964, pp 138-142.
*AEC
EDC Mar 22, 1966

Functional Investigation of the Retinal
Vessels in Arterial Hypertension, by
D. J. Polychronakos.
GERMAN, per, Klin Wbl Augenheilk, Vol 141,
1962, pp 23-32.
HEW NIH 10-8-65

Scientific
Biological & Medical Sciences (Contd)

A New Diagnostic Sign of Glaucoma Involving the Episcleral Arteries, by Istvan Rethy.
GERMAN, per, Klin Mbl. Augenheilk., Vol 144, 1964, pp 46-53.
HEW NIH 11-16-65

Can the Ophthalmologist Diagnose Hypertension and Arteriosclerosis by Slit Lamp Observation of Episcleral Arteries? by Istvan Rethy.
GERMAN, per, Klin Mbl. Augenheilk., Vol 145, 1964, pp 439-442.
HEW NIH 12-6-65

Physical and Biological Limits of Transmission of Information.
GERMAN, per, Kybernet., Vol II, No 6, 1965, pp 274-284.
*Dept of Navy JHU/APL No J-754

England: Legal Basis for Control of Air Pollution, by H. Wiethaup.
GERMAN, per, Luft und Betrieb, No 4, 1964, pp 219-221.
*CFSTI
TT 66-51035

Italy: Problems of Air Pollution From a Legal Point of View, by H. Wiethaup.
GERMAN, per, Luft und Betrieb, No 2, 1965, pp 118-119.
*CFSTI
TT 66-51036

Diagnostic Importance of Blood Protein Changes in Acute Malaria, by E. Asshauer.
GERMAN, per, Mod. Klin., Vol 60, No 19, 1965, pp 754-760.
HEW NIH 1-27-66

Purpose and Possibilities of Cosmetic Surgery, by H. E. Kohnlein.
GERMAN, per, Munchen Med. Wschr., Vol 107, No 6, 1965, pp 285-290.
HEW NIH 11-13-65

The Development of Carcinoma as a Sequel of Lichen Ruber Planus of the Oral Mucous Membrane, by W. Koberg, et al.
GERMAN, per, Munchen Med. Wschr., Vol 107, No 10, 1965, pp 463-466.
HEW NIH 1-2-66

Scientific
Biological & Medical Sciences (Contd)

Excretory Product of n(4-methyl-phenyl-sulfonyl)-n'-butylurea in the Dog, by G. Mohnike and G. Wittenhagen,
GERMAN, per, Naturwissenschaften, Vol XLV, No 13, 1958.
Dept of Comm
Patent Office

The Parthenogenesis, Clinic and Therapy of Acute Radiation Sickness on Testing with Monkeys, by B. A. Lapin, 17 pp.
GERMAN, bk, die Pathogenese, Klinik und Therapie der Akuten Strahlenkrankheit bei Versuchen an Affen, 1964.
ACSI I-8891-A
ID 2204065565

Pharmacology and Clinical Aspects of Synthetic Poisons, by Kurt Stade.
GERMAN, bk, Pharmakologie und Klinik Synthetischer Gifte, Deutscher Militärverlag, Berlin, 1964, pp 19-457. 9699751-V
Dept of Navy/ONI Tr No 2001

Studies on Chelate Formation by Streptomycin With Some Metal Ions, by G. Zahn.
GERMAN, per, Pharmazie, Vol 19, 1964, pp 407-410.
HEW NIH 10-9-65

Paramagnetic Resonance Investigations of Silver Halogenides Doped With Fe, by K. Hennig, 15 pp.
GERMAN, per, Physica Status Solidi, Vol VII, No 3, 1964, pp 885-892.
9698953
FTD-TT-65-903

Air Pollution Control in Nordrhein-Westphalia Area.
GERMAN, rpt, Reinhaltung der Luft im Land Nordrhein-Westfalen, Vol V, 1965, 48 pp.
*CFSTI
TT 66-51034

The Dangers of Laser Radiation, by F. Fankhauser.
GERMAN, per, Schweizer Archiv, Jun 1965, pp 199-201. 9232014
UCRL Tr-1310(L)

Scientific
Biological & Medical Sciences (Contd)

Error Evaluation in Serial Dilution Methods,
by W. Oberzill.
GERMAN, per, Sci Pharm, Vol 32, No 4,
1964, pp 279-308.
HEW NIH 11-3-65

Hygiene Effects and Control of Dusts,
Fogs, Gases, Vapours, Radioactive Particles.
GERMAN, per, Staub-Reinhaltung der Luft,
1965, 750 pp.
*CFSTI
TT 66-51040/1-12

Microbic Heavy Workers in Action,
by F. Claus.
GERMAN, per, Technische Gemeinschaft,
Vol XIII, No 10, 1965, pp 8-12.
*ACSI I-9312
ID 2204012766

The Chemical Mechanism of the Thiolase
Reaction, by Ulrich Gehring. 85 pp.
GERMAN, rpt, Thesis; Ludwig Maximilians
Universitat Munich, 1964.
HEW NIH 11-17-65

Research on Nephrotoxic Dose of Ca-EDTA
(Ca-Na₂-Ethylene-Diamine-Tetra-Acetic
Acid) on Normal Guinea Pigs and Those with
Renal Damage, by Max Amport, 21 pp.
GERMAN, rpt, Untersuchungen Ueber die
Nephrotoxische Dosis des Ca-EDTA's bei
Gesunden und Nierengeschadigten Meersch-
weinchen, Zurich, 1960.
Dept of Navy 4549/NMS Tr 1049

Tablets Instead of Supper.
GERMAN, per, Urania, No 11, 1965, pp 883-887.
*ACSI I-9330
ID 2204014566

Further Investigations of the Prophylaxis
and Therapy of Radiation Sickness,
by H. C. Hanns Langendorff, et al, 56 pp.
GERMAN, bk, Wietere Untersuchungen uber
die Prophylaxe und Therapie der Strahlen-
krankheit, 1965.
ACSI I-8891-B
ID 2204065565

Scientific
Biological & Medical Sciences (Contd)

Hyperesthesia of the Teeth, by Blass.
GERMAN, per, Zahnaerztl Rundsch, Vol 74,
No 1, 1965, pp 6-7.
HEW NIH 11-9-65

A Trustworthy Remote Support for Bilateral
Free-end Saddle Prostheses, by Rudolp Gartner.
GERMAN, per, Zahnaerztl Rundsch, Vol 74,
No 1, 1965, pp 17-20.
HEW NIH 11-11-65

Clinical Experiences With Multidimensional
Chemotherapy, by Herbert Harnisch.
GERMAN, per, Zahnaerztl Rundsch, Vol 74,
No 1, 1965, pp 2-5.
HEW NIH 11-22-65

The Exchange between Cholesterol on the
Surface of Erythrocytes and Cholesterol in
the Blood Plasma, by Gerhard Ruhenstroth-
Bauer, 6 pp.
GERMAN, per, Zeit fur die Gesamte
Experimentelle Medizin, Vol CXXI,
1953, pp 475-479. 9231984
AEC UCRL-Trans 1277

Purification and Characterization of Two
Proteins of Type 2 Adenovirus, by Kurt
Koehler.
GERMAN, per, Zeit fur Naturforsch [B],
Vol 20, No 8, 1965, pp 747-752.
HEW NIH 1-9-66

Systematic and Accidental Sources of Error
in the Measurement of Small Quantities of
Antitoxin. First Report Tetanus Antitoxin,
by John Ipsen.
GERMAN, per, Z Immun-Forsch, Vol 102, 1964,
pp 347-368.
HEW NIH 1-12-66

The Microcytology of Cancer Blood and the
Bone Marrow, by G. Kiss.
GERMAN, per, Z Int Med Ges Blut Geschwulstkr,
Vol 2, No 6, 1965, pp 1-5.
HEW NIH 12-5-65

Scientific
Biological & Medical Sciences (Contd)

Isolation of a group-specific Antigen From the Chicken Myeloblast Virus, by Heinz Bauer, et al.
GERMAN, per, Z. Naturforsch [B], Vol 20, 1965, pp 815-817.
HEW NIII 1-20-66

Anemia in Rheumatoid Arthritis (primary chronic polyarthritis) in Childhood. First report. Survival Time of Transfused Donor Erythrocytes in Children with Rheumatoid Arthritis, by D. Stoeber, et al.
GERMAN, per, Z. Rheumaforsch, Vol 19, 1960, pp 103-116.
HEW NIII 10-12-65

Studies of the Economy of Ixodes Ricinus in an Endemic Area of Tick-Borne Encephalitis (TBE) in the New Church District (Lower Austria) by G. Pretzmann et al.
GERMAN, rpt, Zentralblatt fur Bakteriologie Originale, No 10, 1962, pp 3-7.
ACSI I-8933 A
ID 2204066265

Experimental Infection of Mus Musculus With Tick-Borne Encephalitis Virus, by A. Radda, G. Pretzmann, et al.
GERMAN, rpt, Zentralblatt fur Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, 1964, pp 285-292.
ACSI I-8933 D
ID 2204066265

Influence of Hibernation on the Multiplication of Virus After Experimental Infection of the Ground Squirrel (Citellus Citellus) With Tick-Borne Encephalitis Virus. by A. Radda, G. Pretzmann.
GERMAN, rpt, Zentralblatt fur Bakteriologie, Parasitenkunde, Infektionskrankheiten und Hygiene, 1964, pp 413-420.
ACSI I-8933 B
ID 2204066265

Scientific
Biological & Medical Sciences (Contd)

An Investigation into a Natural Focus of Tick-Borne Encephalitis (TBE) in Lower Austria, by G. Pretzmann, A. Radda, et al.
GERMAN, rpt, Z. Morph Okol Tiere, 1964, pp 393-413.
ACSI I-8933 C
ID 2204066265

Results of Certain Electro-Physiological Investigations on the "Voskhod" Spacecraft, by I. T. Akulinichev.
GREEK, rpt, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965.
NASA TT F-9591

Certain Results of Physiological and Ecological Investigations of the Chlorella Culture as a Link in a Closed Ecological System, by Ye. Ya. Shepelev.
GREEK, per, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965.
NASA TT F-9592

Problem Concerning Disturbances of the Local Blood Circulation in Man Under the Influence of Prolonged Transverse Accelerations, by M. D. Yemel'yanov, E. S. Kotova.
GREEK, rpt, Paper Presented at the 16th International Astronautics Congress, Athens, Sept 13-18, 1965.
NASA TT F-9594

Studies on Algae in Hungary, by Tibor Hortobagyi, 7 pp.
HUNGARIAN, per, Magyar Tudomány, Vol LXXII, New Vol X, No 11, Nov 1965, pp. (715) 718-723.
JPRS 34012

Blindness in Iceland, by Gudmund Bjornsson.
ICELANDIC, per, Lacknabladid, Vol 38, No 5, 1954, pp 65-78.
HEW NIII 11-14-65

Scientific
Biological & Medical Sciences (Contd)

Normal Sluggish A2 Hemoglobin: its Connections With a new Sluggish Hemoglobin Fraction, B₂, and its Importance for the Recognition of Thalassemic Variants Which Appear in the Families of Carriers of Thalassemia Media and of H Hemoglobinopathy, by Ruggero Ceppellini.
ITALIAN, per, Acta Genet Med (Roma), Vol 8, Suppl 2, 1959, pp 47-68.
HEW NIH 10-14-65

Frostbite, Congelation and Trench Foot, by Raffaele Paolucci di Valmaggione.
ITALIAN, per, Ann Med Colon, Vol XLVI, 1940, Nov, Dec, pp 505-511.
*Dept of Navy/NMC

Confrontation With Death, by E. de Wind.
ITALIAN, per, Folia Psychiatriae, Vol 52, 1949, pp 459-466.
HEW NIH 1-22-66

Mortality and Survival in Malignant Melanoma of the Choroid (A Statistical Study of 58 Cases), by Renato Frezzotti, et al.
ITALIAN, per, G. Ital Oftal, Vol 16, 1963, pp 350-371.
HEW NIH 11-28-65

Contribution to the Study of the Trench Foot, by Umberto Tassone.
ITALIAN, per, Gazz Osp, Vol XXXVIII, 1917, pp 811-816.
*Dept of Navy/NMC

Experimental Contribution to the Study of the Relationships Between the Pineal body and the Endocrine Glands (pituitary, Adrenal, Thyroid, and Pancreas) through Radioactive Phosphorus P³², by F. P. Serluca, et al.
ITALIAN, per, Minerva Ginec, Vol 15, No 2, 1963, pp 121-126.
HEW NIH 10-20-65

Medical Curiosities. The Last Words of the Dying. Contribution to the Knowledge of the Psychology of the Pre-mortal State, by Lamberto Vitale.
ITALIAN, per, Minerva Med, Vol 49, No 52, 1950, pp 256-267.
HEW NIH 1-24-66

Scientific
Biological & Medical Sciences (Contd)

The Visualisation of the Pancreas by Means of Scintigraphy, by C. Biagni.
ITALIAN, per, Nuntius Radiologicus, Vol XXIX, No 12, 1963, pp 935-939. 9232011
AEC-NP-Tr-1335

Pretibial Myxedema, by P. Biassoni, G. F. Camussini, 19 pp.
ITALIAN, per, Panmatone, Vol III (12), 1961, pp 250-254.
Dept of Navy Tr 4498/NMS 1041

Amount of Blood in the Brain With Different Conditions of the Organism, by T. P. Zhukova.
ITALIAN, per, Pediatria, No 3, 1953, pp 35-40.
HEW NIH 12-9-65

Clinical Course of Reovirus Infection in Children, by A. L. Strutsovskaya, et al.
ITALIAN, per, Pediatria, Vol 44, 1965, pp 8-12.
HEW NIH 12-21-65

Statistical and Anatomicopathological Findings Regarding Congenital Cardiopathies Seen at the Institute of Pathological Anatomy of the University of Rome During the Decade 1951-1960 (and Their Association With Other Malformations), by L. Ajello.
ITALIAN, per, Policlinico [Med], Vol 72, No 2, 1965, pp 73-84.
HEW NIH 12-26-65

Toxicological Determination of Meprobamate by Means of Silica Gel Chromatoplate Adsorption Chromatography, by G. Faraone, 5 pp.
ITALIAN, per, Rass. Med. Sarda, Vol LXII, 1960, pp 661-664.
Dept of Navy Tr 4464/NMS 1035

Medicine and Social Security, by Bernardo Sepulveda.
ITALIAN, per, Rev. Med. ISS, Vol 3, Suppl 1, 1964, pp 3-10.
HEW NIH 1-7-66

Scientific
Biological & Medical Sciences (Contd)

Nuclear Energy and Safety, by
Jose M. Ortiz Tirado.
ITALIAN, per, Rev Med IMSS, Vol 3, Suppl 1,
1964, pp 11-12.
HEW NIH 1-8-66

Accident from Radiation: Observations on
the Accidental Exposure of a Family to a
Source of Cobalt 60, by G. Martinez, et al.
ITALIAN, per, REV MED IMSS, Vol 3, Suppl 1,
1964, pp 14-69.
HEW NIH 1-23-66

Contribution to the Study of the Hemorrhagic
Syndrome in the Course of Acute Leukemia:
Description of a Case With Acute Defibri-
nation, by P. Boccaccio, et al.
ITALIAN, per, Riv Emoter Immunoemat, Vol 11,
No 1/2, 1964, pp 1-18.
HEW NIH 12-12-65

A Study of Fireflies, by Minami Kilchiro,
JAPANESE, bk, Title Unknown, 1962.
*ACSI I-9415
ID 2204017766

Radioactive Strontium Excretion from an
Organism, by Elichi Ogawa.
JAPANESE, per, Genshiryoku Kogyo, Vol IX,
No 11, 1963, pp 41-45. 9231760
AEC-ANL-Tr-235

Passive Transfer of Immunity to Tuber-
culosis by Means of Cells from BCG-
vaccinated Mice. I. Comparison of Results
Obtained in Experiments With Two Mouse
Strains Differing in Their Susceptibility
to Tuberculosis, by G. Asaba, et al.
JAPANESE, per, Kekkaku, Vol 39, 1964,
pp 55-59.
HEW NIH 12-25-65

Research on the Immunizing Effects of
Unclassified Acid-fast Bacilli Against
Tuberculosis Infection, by Kenjiro KOYAMA.
JAPANESE, per, Kekkaku, Vol 39, 1964,
pp 64-68.
HEW NIH 1-6-66

Scientific
Biological & Medical Sciences (Contd)

Studies on the Morphology of the Eyes of
the Inhabitants of Southern Kyushu, by
Toshio MATSUMOTO.
JAPANESE, per, Nippon Ganka Gakkai Z,
Vol 54, No 8, 1950, pp 292-296.
HEW NIH 10-7-65

Studies of Glucosidation With N-acylgluco-
samine Using Lewis Acid as the Catalyst, by
T. Yoshimura, et al.
JAPANESE, per, Nippon Kagaku, Vol 85,
No 2, 1964, pp 142-145.
HEW NIH 1-19-66

Lymphocytic Leukemia and Myelocytic Leu-
kemia from the Standpoint of the Lymph
Gland, by Keisuke MATSUI,
JAPANESE, per, Nippon Kersueki Gakkai Z,
Vol 26, pp 48-54, 1963.
HEW NIH 10-4-65

Endocrinological Study of Renin (1) the
Relationship Between Anterior Pituitary and
Renin of Frogs, by Fujio YOSHIMURA, et al.
JAPANESE, per, Nisshin Igaku, Vol 26,
No 11, 1951, pp 631-636.
HEW NIH 1-28-66

Studies on the Neurotoxins Isolated From
the Elapine Venoms, by Chen-Yuan LEE.
JAPANESE, per, Showa Igakkai Zasshi, Vol 23
1963, pp 221-229.
HEW NIH 11-5-65

Chemical Constituents of Bordetella Bac-
teria, by Yoshio KUWAJIMA, et al.
JAPANESE, per, Tanpakushitsu Kakusan Koso,
Vol 9, 1964, pp 717-724.
HEW NIH 11-27-65

Ventricular Tachycardia, by Christopher Bjerkelund,
Erling Jakobsen, 12 pp.
NORWEGIAN, per, Nord. Med, Vol LXXI, 1964,
pp 33-36.
Dept of Navy Tr 4447/NMS No 1032

Polish Medical Journal, 1,000 p.
POLISH, rpt. 1966.
*CFSTI TT 66-57007

Scientific
Biological & Medical Sciences (Contd)

A Case of True Cholesteatoma of the Temporal Bone, by Ivan Hybasek.
POLISH, per, Cesk Otolaryngologia Polska, Vol 9, No 1, 1960, pp 42-46.
HEW NIH 1-10-66

New Discoveries on the Reptilian-Mammalian Borderline, by Z. Kielan-Jaworowska.
POLISH, per, Kosmos, Ser A, Vol XII, No 2, 1963, pp 137-149.
Dept of Navy 4525/APL/JHU T-1663

Experimental Medicine and Microbiology. 400 p.
POLISH, rpt, Medycyna Doswiadczalna i Mikrobiologia, 1966.
*CFSTI TT 66-57005

A Familial Form of Congenital Paromyotonia Followed Through 6 Generations, by A. Eulenburg.
POLISH, per, Neurol Chl, Vol 5, No 12, 1886, pp 265-273.
HEW NIH 1-15-66

Polish Review of Radiology and Nuclear Medicine, 675 p.
POLISH, rpt, Polski Przegląd Radiologii-Medycyny Nuklearnej, 1966.
*CFSTI TT 66-57002

Endocardial Fibroelastosis in Siblings, by Helena Tulczyńska.
POLISH, per, Pol Tyg Lek, Vol 12, No 27, 1957, pp 1039-1043.
HEW NIH 1-4-66

Mass Investigations and Genetic Studies Applied to the Epidemiology and Treatment of Diseases, by Bogusław Halikowski, et al.
POLISH, per, Polski Tygodnik Lekarski, Vol 19, 1964, pp 1042-1046.
HEW NIH 1-11-66

The Influence of Thermal Denaturation Upon the Mechanical Resistance and Texture of Animal Tissue (as Measured on the Baltic Herring, by Damazy J. Tilgner. 18 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12 (8) 1964, pp 127-144.
*CFSTI TT 66-57064

Scientific
Biological & Medical Sciences (Contd)

Technological and Chemical Characteristics of North Atlantic Redfish, by Krystyna Hryniewiecka. 20 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. E. 1964, pp 19-38.
*CFSTI TT 66-57049

Bacterial Flora of Sea Fish From West African Fishing Grounds, Pt. 1. Strains Isolated From Iced and Frozen Fish, by Jerzy Kochanowski. 14 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego, Vol 13, Ser. B, 1964, pp 93-106.
*CFSTI TT 66-57052

Epidemiological Review. 450 p.
POLISH, rpt, Przegląd Epidemiologiczny, 1966.
*CFSTI TT 66-57001

Chemical and Weight Composition of the Consumable Parts, the Waste and the Gonads of the Flounder (Pleuronectes Flesus L.) Caught in the Zone of the Bay of Gdansk - in the Annual Cycle, by Marian Ziecik. 18 p.
POLISH, per, Zeszyty Naukowe Wyższej Szkoły Rolniczej w Olsztynie, Vol 18, No 3, 1964, pp 263-280.
*CFSTI TT 66-57067

Weight and Chemical Composition of Edible Parts and Offal of Sprat (Coregonus Albula L.) From Wydrynski Lake in an Annual Cycle, by Marian Ziecik. 15 p.
POLISH, per, Zeszyty Naukowe Wyższej Szkoły Rolniczej w Olsztynie, Vol 18, No 3, 1964, pp 281-295.
*CFSTI TT 66-57066

Separation of Fish Flesh Adines by Modified Steiner and Kaziński Method, by Maciej Binakowski. 6 p.
POLISH, per, Zeszyty Naukowe Wyższej Szkoły Rolniczej w Olsztynie, Vol 20 No 1, 1965, pp 151-156.
*CFSTI TT 66-57056

Argentine Hemorrhagic Fever Vaccination with Inactivated Junin virus, by A. S. Parodi, et al.
SPANISH, per, Cienc Invest, Vol 21, No 3, 1965, pp 132-133.
HEW NIH 10-19-65

Scientific
Biological & Medical Sciences (Contd)

Neuropathological Aspects of Karwinskia
Humboldtiana Intoxication: An Experimental
Study by Escobar Izquierdo, A. et al.
SPANISH, per, Gac. Med. Mex., Vol 92, No 2,
1965, pp 163-177.
HEW NIH 10-2-65

Immunization of Guinea Pigs Against the
Junin Virus by Inoculation with the
Tacaribe Virus, by Armando S. Parodi.
SPANISH, per, Medicina (B Air), Vol 24,
No 3, 1964, pp 151-153.
HEW NIH 10-24-65

Serological Study of the Argentine He-
morrhagic Fever Epidemic of 1963, by
Norma E. Mettler, et al.
SPANISH, per, Prensa Med Argent., Vol 52,
No 24, 1965, pp 1479-1482.
HEW NIH 11-1-65

Viremia in Patients With Argentine Hemorr-
hagic Fever, by M. C. Boxaca, et al.
SPANISH, per, Rev Asoc Med Argent., Vol 79,
No 5, 1965, pp 230-238.
HEW NIH 11-4-65

Experimental Hemorrhagic Fever in Guinea
Pigs (Junin Virus), by L. B. de Guerrero.
SPANISH, per, Rev. Asoc Med Argent., Vol 79,
No 6, 1965, pp 271-274.
HEW NIH 10-25-65

Cuban Pediatric News, 5 pp.
SPANISH, per, Revista Cubana de Pediatria,
30 Apr 1965, pp. 129, 149, 151, 158, 159,
164-165, 167, 173-175, 176, 183, 184, 196,
198, 204, 205, 212, 221, 227, 236, 246.
JPRS 33951

Perinatal, Infant, Pre-School and School
Age Child Mortality, by Dr. J. Alvaro Diaz
Artalde, 6 pp.
SPANISH, per, Revista Cubana de Pediatria,
30 Apr 1965, pp. 213, 216-219.
JPRS 33951

Scientific
Biological & Medical Sciences (Contd)

Hematological Variations in Guinea Pigs
with Experimental Hemorrhagic Fever
(Junin Virus), by Stella M. Gonzalez,
SPANISH, per, Rev Soc Argent Biol., Vol 38,
1962, pp 393-399.
HEW NIH 10-23-65

Reticulum of Ciliated Cells of the Labyrinth
in Mouse and its Independence of Nerve
Endings of the Eighth Pair, by J. F. Tello.
SPANISH, per, Trav Lab Rech Biol Univ Madrid,
Vol 27, 1931, pp 151-186.
HEW NIH 11-25-65

The Physician at the Death Bed, by
A. von Rosen.
SWEDISH, per, Svensk Lakartidn., Vol 36,
No 2, 1939, pp 73-101.
HEW NIH 10-17-65

Dowel Anchors. Proposal for Standardization,
by D. Didner.
SWEDISH, per, Svensk Tandlak T., Vol 39, 1946,
pp 184-186.
HEW NIH 12-23-65

Some Retention Tests on Firmly Cemented
Cylindrical Dowels, by D. Didner.
SWEDISH, per, Svensk Tandlak T., Vol 45,
1952, pp 184-186.
HEW NIH 12-24-65

Metabolism and "Functional Survival" of the
Isolated Rat Cervical Sympathetic Gang-
lion, by F. Roch-Ramel.
SWISS, per, Helv Physiol Pharmacol Acta,
Suppl. 13, 1962, pp 1-64.
HEW NIH 10-5-65

On Organization and Operations of Treatment
Units in the New Situation, 16 pp.
VIETNAMESE, per, Y hoc Thuc hanh, Nov 1965,
pp. 1-6.
JPRS 34113

Responsibilities of Treatment Facilities
in Organizational Changes, 6 pp.
VIETNAMESE, per, Y hoc Thuc hanh, Nov 1965,
pp. 6-8.
JPRS 34113

Scientific
Biological & Medical Sciences (Contd)

Operational Facets of Treatment Facilities,
17 pp.
VIETNAMESE, per, Y hoc Thuc hanh, Nov 1965,
pp. 8-14.
JPRS 34113

Alter the Organization of Treatment Facilities
to Conform to New Situation, 11 pp.
VIETNAMESE, per, Y hoc Thuc hanh, Nov 1965,
pp. 14-18.
JPRS 34113

Chemistry

Organophosphorus Compounds with Low Toxicity,
by B. A. Arbuzov, A. O. Vizel', I. V. Zaikonni-
kova, I. A. Studentsova, V. G. Dunayev, M. A.
Zvereva and K. M. Ivanovskaya, 8 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR,
Vol 165, No 1, 1965, pp. 91-94.
JPRS 34216

The Synthesis of Dialkyl Triorganosilyl-
methoxymethyl Phosphinates and Their Hydro-
lytic Stability, by N. F. Orlov and V. P.
Mileshekevich, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR,
Vol 164, No 2, 1965, pp. 344-346.
JPRS 34199

Physical and Chemical Bases of Life
Phenomena, by L. Ya. Blyakher, et al.
RUSSIAN, rpt, Fizicheskiye i Khimicheskiye
Osnovy Zhiznennykh Yavleniy, 1963,
215 pp.
*NASA TT F-381

Mass-Spectrometric Study of the
Vaporization of NbO, by
S. A. Shchukarev, et al.
RUSSIAN, per, Izv VUZ Khim i Khim
Tekhn, No 5, 1962, pp. 691-693.
NASA TT F-9776

Scientific
Chemistry (Contd)

A Conference on Sublimation Drying of
Food Products, by V. D. Surkov,
E. J. Kaukhcheshvili.
RUSSIAN, per, Iz VUZ Pishch Tekh, No 1,
1964, pp. 174-.
*ACSI I-9054G
ID 2204070065

Determining Concentration of Dyes on
Colored Fabrics by means of Spectra of
Reflection, by L. A. Volodina.
RUSSIAN, per, Iz VUZ, Tekh Tekstil Prom,
No 4, 1964, pp. 97-104.
ACSI I-8936 A
ID 2204066365

Selection of an Efficient Layout of the
Capron Dyeing Process, Using Active Vinyl
Sulfamidic Dyes, by L. A. Kovzhin.
RUSSIAN, per, Iz VUZ, Tekh Tekstil Prom,
No 4, 1964, pp. 105-110.
ACSI I-8936 B
ID 2204066365

Tension of Water Vapors Over Solutions
NaCl-KCl-MgCl₂-H₂O, by N. I. Khaidukov,
Z. G. Linetskaya.
RUSSIAN, per, Kalii, No 8, 1935, pp. 28-33.
Dept of Interior
ACS E57
No 179

Organophosphorus Compounds, by E. Ye.
Nifant'yev, 12 pp.
RUSSIAN, per, Khimiya v Shkole, No 6, Nov/
Dec 1965, pp. 2-9.
JPRS 34216

Flame Propagation Under Conditions of an
Ignition Peninsula of Hydrogen-Oxygen
Mixtures, by V. Ya. Basevich, S. M. Kogarko,
13 pp.
RUSSIAN, per, Kinetika i Kataliz, Vol VI,
No 1, 1965, pp. 23-30. 9699820
FTD-TT-65-919

Organophosphorus Compounds: Their Action
and Methods of Laboratory Investigation,
by B. A. Krivoglas, 27 pp.
RUSSIAN, bk, Klinika i Lecheniye Intoksi-
katsiy Yadokhimikatami, 1965.
JPRS 34180

Scientific
Chemistry (Contd)

The Influence of Pressure and Temperature on the Absorption Edge of Cd Te, RUSSIAN, per, Litov Fiz Sbornik, 1964, pp 529-536.
ACSI I-9427
ID 2204017466

A Chemical Reaction Produces a Microcircuit, by V. Syrkin, 10 pp. RUSSIAN, per, Nauka i Zhizn, No 10, 1964, pp 28-31. 9699045
FTD-TT-65-1165

Experiment in Studying the Regularity of Capillary Movement of Water and Salt Solutions in Layered Soils, by I. N. Falitsiant. RUSSIAN, bk, Opyt Izucheniya Zakonomernostei Kapillarnogo Peredvizheniya Vody i Pastvorov Solei v Sloistykh Gruntakh, 1961, 108 pp.
*CFSTI
TT 66-51052

Oxygen Utilization by the Organism and Its Regulation, by N. A. Agadzhanian, et al. RUSSIAN, rpt, Paper Presented at Symposium, 24-29 May, Kiev-Kanev, 1965, 316 pp.
*NASA TT F-420

Peroxides, Superoxides, and Ozonides Alkalides and Alkali- Earth Metals, by I. I. Vol'nov. RUSSIAN, bk, Perekisi, Nadperekisi i Ozonizy Shchlochiykh i Shchelochnozemelnykh Metallov, Nauka, 1964.
*CB

Synthesis and Properties of Organoelemental Polymers With Silicon, Germanium, and Tin in the Chain, by L. K. Luneva, A. M. Sladkov, 9 pp. RUSSIAN, per, Vysok Soved, Vol VII, No 3, 1965, pp 427-431. 9698954
FTD-TT-65-1662

Scientific
Chemistry (Contd)

The Problem of the Effect of Dispersion of Sodium Chloride on the Properties of Safety Ammonites. RUSSIAN, per, Vzryvnoye Delo, No 52, 9, 1963, pp 234-239.
Dept of Navy Tr 4508/ONI Tr

Selection of the Conditions for Chromatographic Analysis of the Gas Mixtures Containing CO₂, C₂H₄, O₂, C₂H₆, O₂, H₂, N₂, CO, CH₄, C₂H₂, by N. S. Torocheshnikov, et al. 6 RUSSIAN, Zh Prikl Khim, Vol XXXVIII, No 9, 1965, pp 2017-2026,
*NASA TT F-9875

A Method for Thermal Stabilization of Polyamide Fibers, by G. I. Kudryavtsev. RUSSIAN, Patent No 167952.
*FTD-TT-66-89

A Method for Obtaining Phosphorous-Bearing Polyesters, by V. I. Kodolov. RUSSIAN, Patent No 170663.
*FTD-TT-66-95.

Process for Preparing an Ester of Chloramphenicol Having Chemotherapeutic Properties, by G. Zambon, BELGIAN, pat, Patent No 572,685.
Dept of Comm
Patent Office

Extraction of Beryllium from Beryl, by Kuo Ch'uan-lin (6753 0278 7207), 17 pp. CHINESE, per, Hua-hsueh T'ung-pao, No 12, Dec 1965, pp. 13-19.
JPRS 34251

Kinetics of Polycondensation between Diphenyl-Dichlorosilane and Bisphenol-A, by Ting Yung, Wang Hui ch'ung, 14 pp. CHINESE, per, Kao-fen-tzu T'ung-hsueh, Vol VII, No 4, 11 July 1965, pp. 221-228.
JPRS 34184

Scientific
Chemistry (Contd)

Phosphonitrilochloride-Phenols Condensation Resins and Plastics, by Wu Hsu-ch'in (0702 0650 0530), and Kao Min-chih (7559 2404 5347), 10 pp.

CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol. VII, No 4, 11 July 1965, pp. 229-234.
JPRS 34184

Synthesis of Organophosphorus Polymers, by Hsu Yu-wu (1776 5038 2745), Yeh Ta-k'eng (0673 1129 6972), Huang Yu-yuan (7806 5940 3293), Lin I-keng (2651 7328 1649), Fang Hsien-chang (2455 0431 3864), and Chang Yang-d'ai (1728 2254 0418), 8 pp.

CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol. VII, No. 4, 11 July 1965, pp. 252-256.
JPRS 34184

Interfacial Polycondensation

III. Synthesis of Polyphenyl Ester, by Yang Huan-hsing (2799 3562 5281), Kuan Yun-pi (7070 0336 3880), Wang Hsi-fung (3076 6932 6912), Chou Kuang-hsin (0719 0342 1800), Liu Hsi-hua (0491 1585 5478) and Yuan Chin-chih (0337 6855 2784), 18 pp.

CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol. VII, No 5, Sept 1965, pp. 304-314.
JPRS 34046

Stereospecific Polymerization of Butadiene with Homogeneous Systems Composed of Nickel Acetylacetonate and Dialkyl-Aluminum Chloride, by Shen Chih-ch'uan (3088 0037 5425), Chiang Lien-sheng (1203 6647 8512), Li Hsing-ya (2621 5281 0068), Chung Ch'ung-ch'i (0112 1504 4388) and Ou-yang Chun (2962 7122 0971), 28 pp.

CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol. VII, No 5, Sept 1965, pp. 322-335.
JPRS 34046

Structure and Properties of Crystalline Graft Polymers, by Tseng Han-min (2582 3352 3046), 34 pp.

CHINESE, per, Kao-fen-tzu T'ung-hsun, Vol. VII, No 5, Sept 1965, pp. 355-372.
JPRS 34046

Bulletin of the Chemical Society. 700p.
CORATIAN, rpt, Hemisko Drustvo Beograd Glasnik, 1966. 10 issues per year.

*CFSTI TT 66-59000

Scientific
Chemistry (Contd)

Sorption of Radioactive Isotopes on Precipitates VI. The Iron (III) Hydroxide-Strontium Nitrate Solution System and the General Sorption Relations on Iron (III) Hydroxide, by Z. Kolarik, 11 pp.
CZECH, per, Collect Czech Chem Commun, Vol XXVII, 1962, pp 938-950. 9231976
AEC ORNL-Tr-877

Sealed Nickel-Cadmium Cells, by Jiri Mrha, Olga Marholova. 12 pp.

CZECH, per, Slaboprudy Obzor, No 3, 1963
ACSI I-9028
ID 2204068565

Preparation of the An(S, Se) - Cu Electro-luminescent Phosphorus, by Zdenek Svec, and Josef Mravinac, 4 p.

CZECHOSLOVAKIA, per, Slaboprudy Obzor, No 8, 1965, pp 480-483.
*ACSI I-9425-B
ID 2204017066

Arc Discharge in He and H₂ Under High Pressure, by A. Michéls, et al.
FRENCH, per, Coll Intern Centre Natl Rech Sci, No 77, 1959, pp 267-281.
NASA TT F-9749

Agents for Use in Chemical Warfare Properties and Possibilities of Manufacture, by Jean Quinchon, 19 pp.

FRENCH, per, Memorial des Poudres, Vol XLIV, 1962, pp. 19-36
JPRS GUO 1027

Occurrence of Gas Hydrates in the Cometary Nuclei, by A. H. Delsemme.
FRENCH, rpt, Occurrence des Hydrates de Gaz dans Les Noyaux Cometaires, October 1965.
NASA TT F-9906

Contribution to the Study of the Pressure-Temperature Diagram of Pure Beryllium, by M. Grancois, M. Contre.
FRENCH, RPT, Paper Presented at Conference Internationale sur la Metallurgie du Beryllium Grenoble, 16-20 May 1965.
AEC UCRL tr 1299(L)

Scientific
Chemistry (Contd)

Process for the Preparation of Esters,
FRENCH, pat, Patent No 883,419
Dept of Comm
Patent Office

Characteristics of Separation Installations,
I. pp 21.
FRENCH, per, Rev Chim, Vol XIV,
1963, pp 223-228. 9232194-V
AEC MLM-1296 (tr)

Methods Based on Reversible Processes,
II. 20pp.
FRENCH, per, Rev Chim, Vol XIV, 1963,
pp 285-289. 9232194-V
AEC MLM-1296 (tr)

Methods Based on Irreversible Processes,
III. 20 pp.
FRENCH, per, Rev Chim, Vol XIV, 1963,
pp 474-478. 9232194-V
AEC MLM-1296 (tr)

Irreversible Process Methods, IV.
17 pp.
FRENCH, per, Rev Chim, Vol XIV, 1963,
pp 605-609. 9232194-V
AEC MLM-1296 (tr)

Methods Based on Irreversible Processes,
V. 15 pp.
FRENCH, per, Rev Chim, Vol XV:3, 1964,
pp 156-159. 9232194-V
AEC MLM-1296 (tr)

Methods Based on Specific Processes,
VI. 16 pp.
FRENCH, per, Rev Chim, Vol XV, 1964,
pp 291-295. 9232194-V
AEC MLM-1296 (tr)

On the Interaction between Steel and the
Prime Coat of Paint, by H. W. Talen.
FRENCH, rpt, Sur l'interaction entre l'Acier
et le Feuill de Peinture Primaire. 9699844
Dept of Navy/ONI Tr No 2104

Study of Chemical Reactions when Firing
into Reaction Gases or Gas Mixtures at
High Velocities, 10 pp.
GERMAN, rpt, 21 Jun 1963.
Dept of Navy Tr 4523/ONI Tr 2112

Scientific
Chemistry (Contd)

Research Reactors and their Tasks,
by H. Weyand, 10 pp.
GERMAN, per, die Atomwirtschaft, Aug, Sep
1964, pp 375-378. 9699841
Dept of Navy/ONI Tr No 2099

Acetylene Dichloride. II. The Effect of the
Speed of Reaction on the Stereochemical
Course of Halogen-Addition to the Acetylene
Formation, by Erwin Ott, Kurt Packendorff,
12 pp.
GERMAN, per, Ber Deut Chem Ges, Vol IV,
pp 1324-1329.
Dept of Navy 4547/NMS Tr 1047

Acetylene Dichloride, by Erwin Ott, 9 pp.
GERMAN, per, Ber Deut Chem Ges, Vol LXIII,
1930, pp 1941-1944.
Dept of Navy 4546/NMS Tr 1046

Determination of Microquantities of
Chloride in Water, by H. U. Woelk,
8 pp.
GERMAN, rpt, Hahn-Meitner Institut fur
Kernforschung Berlin, report No. HMI-B 7,
Nov 1959, 14 pp. 9231981
AEC ANL-Trans-252

Thermal Dehydration of the Hydrates
of Rare Earth Chlorides, by
Guenther Haeseler, Franz Matthes, 15 pp.
GERMAN, per, J. Less-Common Metals,
Vol IX, 1965, pp 133-151. 9231979
AEC IS-Trans-22

Measurement of Coherent Scattering of
Neutrons by Molten Sodium, Caesium
and Bismuth at Various Temperatures,
by H. Oehme, H. Richter.
GERMAN, per, Die Naturwissenschaften
Vol LIII, No 1, 1966, p 16.
*AEC 2354

The Reactivity of Aluminum Oxide in Spinel
Development, by Jan Hlavac.
GERMAN, rpt, Proceedings of the 4th Inter-
national Symposium on the Reactivity of
Solids, 1960, pp 129-136.
*ACSI I-9329
ID 2204014466

Scientific
Chemistry (Contd)

Approximate Calculations for Univariant Systems,
by J. A. M. van Liempt.
GERMAN, per, Zeit fuer Anorganische und
Allgemeine Chemie, Vol III, 1920, pp 280-288.
Dept of Navy Tr 4462/APL/JHU T-1599

Alkaline Earth Metal-Alkaline
Earth Halide Systems, Electric
Conductivity of Solutions of
Calcium in Molten Calcium Chloride,
by H. H. Emons and D. Rickter.
GERMAN, per, Zeit Anorg Allg Chem,
Vol CCCXXXIX, 1965, pp 91-98.
*AEC
EDC May 1, 1966

The Strength of Cationic Fields and thier
Relationship to Devitrification Processes,
to Compound Formation and to the Melting
Point of Silicates, by A. Dietzel.
GERMAN, per, Z fur Elektrochemie, Vol XLVIII,
No 1, 1942, pp 9-23. 9232035
UCRL Tr 1296(L)

The Second Principle of Crystal Chemistry,
by A. Kapustinsky.
GERMAN, per, Z fur Kristallographie,
Vol LXXXVI, 1938, pp 359-369. 9231993
UCRL Tr 1207(L)

Process for Preparing Diazonium
Compounds of 4-Aminodiarlamines,
GERMAN, pat, Patent No 604,278.
Dept of Comm
Patent Office

Process for the Preparation of Conden-
sation Products,
GERMAN, Patent No 534,215.
Dept of Comm
Patent Office

Process for the Preparation of Conden-
sation Products, by Georg Kraemer,
GERMAN, pat, Patent No 538,831
Dept of Comm
Patent Office

Scientific
Chemistry (Contd)

Chemotherapy Research in Hungary, by Endre
Jeney, 10 pp.
HUNGARIAN, per, Magyar Tudomany, Vol LXXII,
New Vol X, Oct 1965, pp. 638-644.
JPRS 34004

Status of Technical Chemistry Research and
Its Achievements in Hungary, by Mor Korach,
11 pp.
HUNGARIAN, per, Magyar Tudomany, Vol LXXII,
New Vol X, No 10, Oct 1965, pp. 645-653
JPRS 34004

Studies on the Mechanism of Adherence
of Enamel on Steel Surface Parts III, IV,
V, by Megumi Tashiro.
JAPANESE, per, Yogyo Koykai Shi, Vol LVII,
1949, pp 124, 125; 149, 150; Vol LVIII, 1950,
pp 51-54. 9232013
AEC-UCRL-Tr-1278

Effect of Gas Sorption on Physical Proper-
ties of CdSe Films, by J. Viscakas.
LITHUANIAN, per, Vilnius, Vol XXXIII, 1960,
pp 161-169.
*ACSI I-9314
ID 2204012966

Process for Preparation of Sulfony-
lureas,
NORWEGIAN, pat, Patent No 71,236.
Dept of Comm
Patent Office

Urea Dicarboxylic Acid Complexes and Adducts.
Obtaining and Crystallographic Data,
by J. L. Amorus, M. L. Palemar.
SPANISH, per, Boletin de la Real
Sociedad Espanola de Historia Natural,
Seccion Geologica, Vol LIX, No 1, 1961,
pp 25-29.
*ACSI I-9297
ID 2204011266

Scientific
Earth Sciences & Astronomy

Traveling on the Bottom of the Sea. How the Relief of Ocean and Sea Bottom is formed, by A. N. Laryonova, 50 pp.
RUSSIAN, bk, the Hydrometeorological Publishers Leningrad, 1959, pp 20-70. 9699842
Dept of Navy/ONI Tr No 765

Structural, Correlation, and Spectral Functions of Interstellar Gas Turbulence, by S. A. Kaplan, 13 pp.
RUSSIAN, per, Astronom Zhur, Vol XXXII, No 3, 1955, pp 255-264. 9698905
FTD-MT-65-09

Intensity Connection of the Electric Field of the Atmosphere With Aurora Polaris, by T. V. Lobodin, 6 pp.
RUSSIAN, per, Byull Geofiz Mezhd, No 13, 1963, pp 38-40. 9699821
FTD-TT-65-855

Waveguides in the Earth's Crust and Subcrustal Layer, by V. A. Magnitskiy, 12 pp.
RUSSIAN, per, Byulleten' Moskovskogo Obshchestva Ispytateley Prirody, Otdel Geologii, Vol XXXIII, No 4, 1958, pp. 15-23.
JPRS 34288

Bulletin of the Moscow, Society for Natural Research. Geological Section.
RUSSIAN, per, Byull Mosk Obshch Ispy Priir, Otdel Geol, Vol LXIII, No 4, 168 pp.
*CFSTI
TT 66-51041

Bulletin of the Moscow Society for Natural Research. Geological Section.
RUSSIAN, per, Byull Mosk Obshch Ispy Priir, Otdel Geolog, Vol LXIII, No 5, 160 pp.
*CFSTI
TT 66-51041

Bulletin of the Moscow Society for Natural Research. Geological Section.
RUSSIAN, per, Byull Mosk Obshch Ispy Priir, Otdel Geolog, Vol LXIII, No 6, 171 pp.
*CFSTI
TT 66-51041

Scientific
Earth Sciences & Astronomy (Contd)

Concentration of Thorium Isotopes in the Waters of the Black Sea, by I. Ye. Starik.
RUSSIAN, per, Dok Ak Nauk, SSSR, Vol CXXIX, 1959, pp 1041-1044.
*Dept of Navy/Oceanographic

Measurement of Velocities of Longitudinal Elastic Waves in Rock Samples at Pressures to 40,000 kg/cm², by M. P. Volarovich and A. I. Levykin, 6 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Seriya Matematika, Fizika, Nos. 4, 5, 6, Vol CLXV, 1965, pp. 1287-1289.
JPRS 34230

Determination of the Concentration of Cloud Condensation Nuclei, by A. G. Laktionov, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Seriya Matematika, Fizika, Vol CLXV, Nos. 4, 5, 6, 1965, pp. 1290-1293.
JPRS 34230

Identification of Petroleum-Industry Structures, by V. P. Alekseyev-Shemyakin, 5 pp.
RUSSIAN, per, Geodeziya i Kartografiya, No 10, Oct 1964, pp. 31-34.
JPRS 34334

Organic Matter in the Abyssal Sediments of the Black Sea, by V. N. Florovskaya and Yu. N. Gurskiy, 9 pp.
RUSSIAN, per, Geokhimiya, No 1, Jan 1966, pp. 123-128.
JPRS 34260

Some Regional Characteristics of the Very Deep Structure of the Earth's Crust in the USSR on the Basis of Geophysical Data, by E. E. Fotiadi, G. I. Karatayev and F. S. Moiseyenko, 28 pp.
RUSSIAN, per, Geologiya i Geofizika, No 10, Oct 1965, pp. 12-22.
JPRS 34072

Scientific
Earth Sciences & Astronomy (Contd)

Investigation of the Polar Aurorae
Geomagnetic Disturbances, and the
Ionosphere at High Latitudes, by
S. I. Isayev.
RUSSIAN, rpt, Issledovaniye Polyarnykh
Siyaniy, Geomagnitnykh Vozmushcheniy
i Ionosfery Vysokikh Shirotozh,
1965.
NASA TT F-386

Variability of Ice Conditions in Northwestern
Atlantic, by A. A. Lebedev.
RUSSIAN, bk, Izmenchivost' Ledovykh Usloviy v
Sever-ozapadnoy Atlantike. Materialy Sessii
Uchenogo Soveta Pinro po Rezul'tatam Issledo
v, 1962-1963, pp 123-129.
Dept of Navy Tr 4538/N00 Tr 261

The Use of Complete Flow for the Calcula-
tion of Circulation Induced by Nonuniform
Wind in a Sea having Elliptical Form,
by V. B. Shtokman.
RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz,
1952, pp 51-68.
*Dept of Navy/Oceanographic

In the International Scientific Organizations
(13th General Assembly of the International
Geodetic and Geophysical Union and the
Symposium on the Results of the Geophysical
Year in the USA.
RUSSIAN, per, Izv. Akad. Nauk SSSR; Seriya
Geograficheskaya, No 1, Jan-Feb, 1964,
pp 113-122.
ACSI I-8487-D
2204050265

News Items (All-Union Conference on the
Study of Avalanches.
RUSSIAN, per, Izv. Akad. Nauk SSSR; Seriya
Geograficheskaya, No 1, Jan-Feb, 1964,
pp 150-156.
ACSI I-8487-E
2204050265

Chronicle-C Fourth Interdepartmental
Conference on Contemporary Movements of
the Earth's Crust, by L. E. Setunskaya,
RUSSIAN, per, Iz Ak nauk SSSR, Ser
Geogr, No 1, 1965, pp 139-141.
ACSI I-7966C
ID 2204043065

Scientific
Earth Sciences & Astronomy (Contd)

Bulletin of the Main Astronomical
Observatory.
RUSSIAN, per, Iz Glavnoi Astron Obser,
Ak Nauk SSSR, Vol XXIII, No 173, 1964,
251 pp.
*CFSTI
TT 66-51145

Listing of High Dams (Over 75 m.), by
N. F. Mandzhavidze, G. P. Mamradze.
RUSSIAN, bk, Katalog Vysokikh Plotin.
Vysotoi Bolee 75 m.), 1963, 186 pp.
*CFSTI
TT 66-51053

Criteria for the Verification of Inter-
pretation of Gravitational Anomaly V ,
by K. M. Kartvelishvili, 6 pp.
RUSSIAN, bk, Kriterii Dlya Proverki Inter-
pretatsii Gravitatsionnoy Anomalii V ,
Vol XXV, No 6, 1960, pp 655-658.
Dept of Navy 4492/N00 Tr 267

Territorial and General Method of Forecasting
Runoff -- the Basis of Hydrological Servicing
of Agriculture, by V. N. Parshin, 12 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 3-10.
JPRS 34005

Cloud Structure in Atmospheric Vortices,
by N. F. Vel'tishchev, 12 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 11-19.
JPRS 34005

Forecasting Continuous Precipitation Using
an Electronic Computer, by A. N. Bagrov,
11 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 20-26.
JPRS 34005

The Amount of Lightning in Summer in the Area
Covered by the Central Asiatic Thunderstorm
Direction-Finding Group, by N. I. Leushin and
L. N. Ardab'yevskaya, 7 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 31-34.
JPRS 34005

Scientific
Earth Sciences & Astronomy (Contd)

Surface Circulation Pattern in Antarctica,
by V. Vitek and G. Tarakanov, 5 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 35-37.
JPRS 34005

The Statistical Relationship between the
Vertical Profiles of Different Meteorological
Elements, by A. Turgunov, 6 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 37-40.
JPRS 34005

Methods and Principles of Modification of
Hail Clouds (Review of Work Done at the High-
Mountain Geophysical Institute), by G. K.
Sulakvelidze, N. Sh. Bibilashvili and V. F.
Lapcheva, 10 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 45-49.
JPRS 34005

New Soviet Books on Hydrometeorology, 5 pp.
RUSSIAN, per, Meteorologiya i Gidrologiya,
No 12, 1965, pp. 57-58.
JPRS 34005

Methods of Studying Ocean Currents from an
Airplane, by E. G. Zhtanovich. 230 p.
RUSSIAN, bk, Metody Izucheniya Morskikh Tehenii
s Samoleta, 1964,
*CFSTI TT 66-51148

DMS-N-53 Remote-Controlled Weather Station,
RUSSIAN, per, Narodnogo Khozyaystva Lenin-
gradskogo Ekonomicheskogo Administrativnogo
Rayons Upravleniye Priborostroitel'noi Promy-
shlennosti - Zaved, 1958.
*ACSI I-9260-A
ID 2204009666

Logbook for DMS-N-53 Remote-Controlled
Weather Station,
RUSSIAN, per, Narodnogo Khozyaystva Lenin-
gradskogo Ekonomicheskogo Administrativnogo
Rayons Upravleniye Priborostroitel'noi Promy-
shlennosti - Zaved, 1958.
*ACSI I-9260-B
ID 2204009666

Scientific
Earth Sciences & Astronomy (Contd)

Anemorhumbometer M-47,
RUSSIAN, per, Nardnogo Khozyaystva Lenin-
gradskogo Ekonomicheskogo Administrativnogo
Rayons Upravleniye Priborostroitel'noi Promy-
shlennosti - Zaved, 1958.
*ACSI I-9260-C
ID 2204009666

The Stokes Formulae for the Case of an
Ellipsoidal Level Surface,
by D. D. Zagresin
RUSSIAN, per, Nauch Zapiski Ser Geod,
No 85, 1962, pp 68-82.
*Dept of Navy/Oceanographic

The GM-9-Sh Improved Bathythermograph,
RUSSIAN, per, Nardnogo Khozyaystva Lenin-
gradskogo Ekonomicheskogo Administrativnogo
Rayons Upravleniye Priborostroitel'noi Promy-
shlennosti - Zaved, 1958.
*ACSI I-9260-D
ID 2204009666

Some Properties of Morphology and Dynamics
of the Rumynian Coast of the Black Sea,
by A. Spataru.
RUSSIAN, bk, Nekotoriye Cherty Morfologii i
Dinamiki Rumynskogo Poberezh'ya Dgernogo
Morya, pp 311-315.
Dept of Navy/NOO Tr 281

The factors that Form the Thermal Stratifi-
cation of Antarctic Waters, by Yu. A. Ivanov.
RUSSIAN, bk, O Faktorakh Formiruyushchikh
Termicheskuyu Stratifikatsiyu Antakticheskikh
Vod, pp 992-996.
*Dept of Navy/NOO

Acoustic Characteristics of Sound-Scattering
Layers in the Ocean and Data of Echo Sounding
and Direct Catching Observations, by I. B.
Andreyeva, 16 pp.
RUSSIAN, per, Okeanologiya, Vol V, No 6,
Dec 1965, pp. 1028-1037.
JPRS 34177

Sound-Scattering Layers as Indicators of
Internal Waves in the Ocean, by Yu. G. Chin-
donova and V. A. Shulepov, 8 pp.
RUSSIAN, per, Okeanologiya, Vol V, No 6,
Dec 1965, pp. 1038-1042.
JPRS 34177

Scientific
Earth Sciences & Astronomy (Contd)

Use of the Alekseyev Printing Current Meter for Studying Storm Currents in Coastal Waters, by A. I. Filimonov, 6 pp.
RUSSIAN, per, Okeanologiya, Vol V, No 6, Dec 1965, pp. 1095-1099.
JPRS 34177

Geophysics, (Geofizika) 1962.
Scientific Results (Itogi Nauki).
RUSSIAN, rpt, Proizvodstvenno-Izdatel'skiy Kombinat VINITI, Moscow 1964, 167pp.
*NASA TT F-383

Designing for Stability of Earth Slopes by a Method of Plane Surfaces of Shear, by R. R. Chugayev.
RUSSIAN, bk, Raschet Ustoichivosti Zemlianykh Otkosov po Metodu Ploskikh Poverkhnostei Adviga Grunta, Moscow, 1964, 178 pp.
*CFSTI
TT 66-51049

Regional Oceanography, by A. K. Leonov.
RUSSIAN, bk, Regional'naya Okeanografiya, 1960, Part 1, pp 79-103.
Dept of Navy Tr 4536/NOO Tr 194

Some Results of a Comparison of the Theoretical and Experimental Characteristics of Seismic Waves, by A. V. Kozlov and V. M. Aminova, 11 pp.
RUSSIAN, per, Sbornik statey po seysmologii Trudy, Vol 12, 1964, pp. 31-42.
JPRS 33988

A Study of the Structure of the Earth's Crust in the Tadzhik Depression Based on Exchange Seismic Waves, by V. K. Kulagin, G. N. Pachadzhanova and N. A. Yepaneshnikova, 10 pp.
RUSSIAN, per, Sbornik statey po seysmologii. Trudy, Vol 12, 1964, pp. 54-66.
JPRS 33988

Recent Crustal Movements. Collection of Articles No 1.
RUSSIAN, rpt, Sovremennye Dvizheniya Zemnoi Kori; Sbornik Statei No 1, 1963, 380 pp.
*CFSTI
TT 66-51042

Scientific
Earth Sciences & Astronomy (Contd)

Stationary Wind-Driven Currents in the Non-Homogeneous Ocean of Variable Depth, by L. M. Fomin, 22 pp.
RUSSIAN, bk, Statsionarnyye Vetrovyye Tcheniya v Neodnorodnom Okeane Peremennoy Glubiny, Vol LXVI, 1963, pp 29-45.
Dept of Navy Tr 4491/NOO Tr 257

Thermophysical Characteristics of Soils, Grounds, Mining Ores and Rocks, by A. F. Chudnovskiy.
RUSSIAN, bk, Teplofizicheskie Charakteristiki Dispersnykh Materialov, Chapt XVI, 1962, pp 410-442.
*CFSTI
TT 66-51045

Hydrometeorological Problems of Polar Regions. Collection of Articles/published/ in the memory of V. V. Frolov. 253p?.
RUSSIAN, per, Trudy Arkticheskii i Artarkticheskii Nauchno-issledovatel'skii Institut, 1963, 269p, (p 122-121, 65-50971 & p. 132-137, 65-61383 - 16 p.
*CFSTI TT 66-51146

Experience in Determining Sea Currents at Great Depths from a Drifting Vessel, by R. R. Belevich.
RUSSIAN, per, Trudy Dal'nevodtogo Nauch Issled Hidrometeorol Inst, No 17, 2 Nov 1964, pp 95-98.
*Dept of Navy/Oceanographic

The Relationship Between the Height of Cloud Bases and Visual Range at the Ground, 9 pp.
RUSSIAN, per, Trudy Glavnoy Geofiz Obser, No 153, 1964, pp 11-17. 9699834
FTD-TT-65-551

Transactions of Leningrad Main Geophysical Observatory, 195 pp.
RUSSIAN, per, Trudy Glavnoy Geofizicheskoy Obser, Vol CXLIII, 1963, pp 1-147.
9699230-V
FTD-MT-64-123

The Mine Atmosphere.
RUSSIAN, per, Trudy Inst Gornogo Dela, Ak Nauk SSSR, 1962, 261 pp.
*CFSTI
TT 66-51043

Scientific
Earth Sciences & Astronomy (Contd)

Problems of Physical Oceanology.
RUSSIAN, per, Trudy Inst Okean Ak Nauk SSSR,
Vol LX, 1962, 197 pp.

*CFSTI
TT 65-51030

Oceanological Investigations in the
Atlantic Ocean.
RUSSIAN, per, Trudy Inst Okean Ak Nauk
SSSR, Vol LVI, 1962, 312 pp.

*CFSTI
TT 66-51029

Hydrological Researches of the Northern
Part of the Indian Ocean, by J. A. Ivanov.
RUSSIAN, per, Trudy Inst Okeano, pp 22-42.
*Dept of Navy/NOO

The Investigation of the North Indian
Ocean Currents, by A. V. Fomitchev.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 43-50.
*Dept of Navy/NOO

The Layers of High Salinity in the North
Indian Ocean, by K. D. Sabinin.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 51-58.
*Dept of Navy/NOO

Time Variability of Hydrological
Characteristics in the Northern Part of
the Indian Ocean, by S. G. Panfilova.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 63-79.
*Dept of Navy/NOO

Primary Production and Biogenic Elements
Content of the Indian Ocean Waters, by
Yu. G. Kabanova.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 85-93.
*Dept of Navy/NOO

The Distribution of Nitrates and Nitrites
in Water of the Northern Part of the
Indian Ocean, by A. G. Rozanov.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 94-101.
*Dept of Navy/NOO

Scientific
Earth Sciences & Astronomy (Contd)

Distribution of Dissolved Oxygen in the
Northern Part of the Indian Ocean, by
V. N. Ivanenkov.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 115-127.
*Dept of Navy/NOO

The Chlorinity of the Intersittial Water
of the Indian Ocean, by O. V. Shishkina.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 144-153.
*Dept of Navy/NOO

Quantitative Distribution of Suspended
Material in the Surface Waters of the
Northern Part of the Indian Ocean, by
E. I. Gordeyev.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 202-213.
*Dept of Navy/NOO

The Vertical Distribution and the Diurnal
Migration of the Ordinary Species of the
Zooplankton From the Northern Part of the
Indian Ocean, by A. G. Naumov.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 250-256.
*Dept of Navy/NOO

The Dependence of Distribution of
Photoplankton Upon the Hydrological
Conditions in the Northern Part of
the Indian Ocean, by V. V. Zernova.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 257-264.
*Dept of Navy/NOO

Quantitative Distribution and Trophic
Zonation of the Bottom Fauna in the Bay
of Bengal and In the Andaman Sea, by
M. N. Sokolova.
RUSSIAN, per, Trudy Inst Okean, Vol LXIV,
pp 271-295.
*Dept of Navy/NOO

The Diurnal Variation of the Absolute
Humidity in the Atmosphere Surface Boundary
Layer, by I. I. Solomatina,
RUSSIAN, per, Trudy, Leningrad Glavnaya
Geofizicheskaya Observatoriya, No 94, 1960,
pp 156-162. 9699175
AFCRL T-R-384

Scientific
Earth Sciences & Astronomy (Contd)

The Coefficient of Turbulent Heat Exchange in the Surface Layer of the Black Sea, by Z. S. Ivanova.
RUSSIAN, per, Trudy Morskogo Gidrofiz Inst, Vol XIII, 1958, 54-64.
Dept of Navy Tr 4539/NOO Tr 263

Proceedings of the Department of Astrobotany, Vol 8, Observations of the Moon, Mars, Uranus and the Stars, Optical Properties of Plants, by G. A. Tikhov, et al.
RUSSIAN, rpt, Trudy Sektora Astrobotaniki, Tom 8, Nablyudeniya Luny, Marsa, Urana i Zvezd, Opticheskiye Svoystva Rasteniy, 1960.
*NASA TT F-419

Organic Matter in Sediments in the Norwegian Sea and Conditions for the Accumulation of Such Matter, by T. I. Gorshkova, 27 pp.
RUSSIAN, per, Trudy Vses Nauch Issled Inst Morsk Rybn Khoz i Okeanol, Vol XLVI, 1962, pp 38-57. 9699845
Dept of Navy/ONI Tr No 2089

Intensity Variations of Cosmic Rays, by A. I. Kuz'min.
RUSSIAN, per, Trudy Yakutskogo Filiala, Seriya Fizicheskaya, No 4, 1962. 9230982-V
NASA TT F-183

Interferometers in Astrophysics, by V. I. Slysh, 28 pp.
RUSSIAN, per, Uspekhi Fizicheskikh Nauk, Vol 87, No 3, 1965, pp. 471-489.
JPRS 33968

Cooperation of Scientists in the Antarctic, by M. M. Somov, 10 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR, No 1, Jan 1966, pp. 73-81.
JPRS 34502

On Some Characteristics of Radio Emission Sources Connected With The Active Regions of the Sun, by A. R. Abbasov.
RUSSIAN, per, Vestn Leningr Univ Ser Mat Mekhan i Astron, No 14(4), 1965, pp 140-142.
NASA TT F 9913

Scientific
Earth Sciences & Astronomy (Contd)

An Economic Evaluation of the Effectiveness of Windbreaks, by L. T. Us-tinovskaya, 5 p.
RUSSIAN, per, Vestnik Sel'skokhozy-aistvennoi Nauki, Vol IV, No 11, 1959, pp 98-102.
*CFSTI TT 66-51089

Propagation of Airy Waves in Shallow Water during Deep Seismic Sounding at Sea, by Ye. A. Starshinova, 22 pp.
RUSSIAN, monograph, Voprosy Metodiki Glubinnogo Seismicheskogo Zondirovaniya, 1965, pp. 141-155.
JPRS 34192

Distance and Depth Determination in Study of the Earth's Crust at Sea, by Ye. A. Starshinova, 22 pp.
RUSSIAN, monograph, Voprosy Metodiki Glubinnogo Seismicheskogo Zondirovaniya, 1965, pp. 156-174.
JPRS 34192

Problems of Theory and Practice in Artificial Freezing of Soils, by Kh. R. Khakimov.
RUSSIAN, bk, Voprosy Teorii i Praktiki Iskusstvennogo Zamorazhivaniya Gruntov, Moscow, 1957, 190 pp.
*CFSTI
TT 66-51051

Transactions of the All-Union Scientific Meteorological Conference, 145 pp.
RUSSIAN, bk, Vsesoyuznoye Nauchnoye Meteorologicheskoye Soveshchaniye, Vol VII, 1963, pp 3-72; 154-160, and 205-215. 9699229-V
FTD-MT-64-296

Methods and Instruments of Oceanological Research, by V. A. Shirey, 23 pp.
RUSSIAN, per, Works of the Institute of Oceanology, Vol LV, pp 3-22. 9699687
Dept of Navy/ONI Tr No 988

Problems of Seismic Studies on the Moon, by V. M. Zharkov, 16 pp.
RUSSIAN, per, Zenlya i veelennaya, No 6, Nov-Dec 1965, pp. 16-23.
JPRS 34142

Scientific
Earth Sciences & Astronomy (Contd)

The Polar Aurorae, by O. L. Vaysberg, 12 pp.
RUSSIAN, per, Zemlya i vseleennaya, No 6,
Nov-Dec 1965, pp. 24-30.
JPRS 34143

Satellite Meteorology, by M. S. Malkevich,
11 pp.
RUSSIAN, per, Zemlya i vseleennaya, No 6,
Nov-Dec 1965, pp. 31-35.
JPRS 34144

Study of the Earth-Type Planets, by
I. K. Koval'
RUSSIAN, per, Zemlya i Vseleennaya,
Vol I, 1965, pp 53-55, No 6,
*NASA TT F-9898

On Torrential Flows, by Tu Jung-huan (2629
2827 2719) and Wang Chia-i (3769 1367 0034),
12 pp.
CHINESE, per, Ti-li, No 5, 27 Sept 1965,
pp. 218-221.
JPRS 34121

Communication by Scatter from Ionized
Meteorite Trails, by Ludmila Triskova.
CZECH, per, Slaboprouty Obzor, No 11,
1963, pp 640-644.
ACSI I-9213
ID 2204005366

The Diffusion of Gas Clouds of the Initial
Clouds Derived from the Explosion of
Chemical Ammunition, by L. A. Clarenburg.
DUTCH, rpt, National Defense Research
Council, TNO Chem Lab, Netherlands,
Report 1959/4. 9699688
Dept of Navy/ONI Tr No 1018

A Study of the Propagation of a Shock Wave and
of the Optical Phenomena Resulting from Explosions
in the Ionosphere, by Jacques Emile Blamont,
Yolande Boubill.
FRENCH, per, Annales de Geophysique, Vol XXI,
No 1, 1965, pp 68-79. 9231893
ABC-SC-T-65-769

Monthly Bulletin: Ionospheric Observations.
FRENCH, rpt, Bulletin Mensuel: Observations
Ionospheriques, Jul 1965, pp 3-6.
ACIC TC-986

Scientific
Earth Sciences & Astronomy(Contd)

Diffusion From a Point Source in a Surface
Air Layer With Unstable Stratification,
D. Iordanov.5pp.
FRENCH, per, Compt Rend Acad Bulg Sci,
Vol XVIII, No 2, 1965, pp 109-112. 9231974
AEC ORNL Tr-905

Earth's Radiation Belts,
by S. N. Vernov, et al.
FRENCH, rpt, Paper Presented at
the 9th International Conference on
Cosmic Rays, London, Sept 1965.
NASA TT F-9905

The Dynamic Reference Surface, A Present
Day Problem in Dynamical Oceanography,
by Gunter Dietrich.
GERMAN, per, Annalen der Hydrographie
und Maritimen Meteorologie, No 2, 1937,
pp 506-519.
Dept of Interior
GC1
ES7 No 59

The Density Increase of Hi Regions,
Rolf Ebert.
GERMAN, per, Z fur Astrophysik, Vol XXXVII,
1955, 217-232. 9232034
UCRL Tr 1290(L)

The Equilibrium Figure and the Normal
Spheroid of the Earth, by K. Ledersteger.
GERMAN, per, Zeitschrift fur Vermessung-
swesen, No 11, 1965, pp 385-393.
ACIC TC-982

Evaluation of Radiation Conditions
on the Lunar Surface, by A. I. Vikhrov,
et al.
GREEK, rpt, Paper Presented at the
16th International Astronautics Congress,
Athens, Sept 13-18, 1965.
NASA TT F-9595

Scientific
Earth Sciences & Astronomy (Contd)

Bulletin of Geophysics, 26 pp.
SPANISH, per, Boletin de Geofisica, Vol I,
No 1, June 1965, pp. 1-19.
JPRS 34238

Contributions to Applied Geodesy, by
E. Baglietto, et al.
SPANISH, rpt, Report Presented at the IX
General Assembly of the Pan-American
Institute of Geography and History and
the X Pan-American Conference on Carto-
graphy, Guatemala City, Jun 25-Jul 10,
1965, 51 p.
*ACIC TC-989

Electronics

An Electromagnetic Mass-Separator of the
Laboratory of Nuclear Reactions. II. A
Description of Mass Separator and its
Characteristics, by A. V. Dem'yanov, 18 pp.
RUSSIAN, rpt.
Dept of Navy Tr 4509/ONI Tr 2078

Antennas and Masts, by G. A. Savitskiy,
16 pp.
RUSSIAN, bk, Antenno-Machtovyye Sooruzheniya,
1962, pp. 70-88.
JPRS 33926

Simulation of Information Processing in a
Neuron, by I. A. Lyubinskiy, N. V. Pozin.
RUSSIAN, per, Avtomatika i Telemekhan,
Vol XXVI, No 10, 1965, pp 1746-1756.
Dept of Navy Tr 4487/APL/JHU T-1621

Investigations of the Electrical and
Optical Properties of Argon in a
Stabilized ARC, by A. Ye. Sheyndlin,
E. I. Asinovskiy, 9 pp.
RUSSIAN, rpt, Doklad, Predstavlenyy
na vi Mezhdunarodnyy Simpozium po
Ionizatsionnyy Yavleniyam v Gazakh,
1965, 10 pp. 9699625
FTD-TT-65-1236

Scientific
Electronics (Contd)

Data on the use of Sector Radio-Range
Beacons and the Characteristics of Operation,
by Ye. Ya. Shchegolev.
RUSSIAN, rpt, Ekspluatatsionnyye Dannyye
Sektornykh Radiomayakov i Osobennosti Raboty,
Moscow, 1956.
Dept of Lavy Tr 4490/NOO Tr 247

Electric Contacts, by B. S. Sotskov,
et al.
RUSSIAN, rpt, Elektricheskiye Kontakty.
1964.
NASA TT F-339

Electrical Equipment and Electric Propul-
sion of Ships, by Glonyagin, 54 pp.
RUSSIAN, bk, Elektro Oborudovanie i Elek-
troduizhenie Sudov, Leningrad, 1963,
pp 310-330; 343-347.
Dept of Navy Tr 4511/ONI Tr 2086

High-Speed Magnetic Diode and Transistor
Logic Elements in Permalloy Tape Cores,
by R. M. Lesnevskiy.
RUSSIAN, mono, Elektronnyye Vychislitel'nyye
Mashing, 1965, pp 3-58.
*JPRS/DC-12135

Tunnel Diode Univibrator in Computer
Circuits, by F. P. Galetskiy,
L. A. Lyubovich.
RUSSIAN, mono, Elektronnyye Vychislitel'nyye
Mashin, 1965, pp 3-67.
*JPRS/DC-12135

A Device for Recording Pressure,
Pulse Volume, and Mechanogram on
the MPO-2 Oscillograph, by
N. N. Vasilevskiy, O. Ya. Guzeyev.
RUSSIAN, per, Fiziol Zh SSSR, Vol XLIX,
No 7, 1963, pp 886-888.
NASA TT F-9581

Equalization Triangulation by Computers,
by P. A. Gaydayev, M. M. Mashimov.
RUSSIAN, per, Geodeziya i Kartografiya,
No 11, Nov 1965, pp 8-14.
ACSI I-9737
ID 2204027666

Scientific
Electronics (Contd)

The use of Sector Radio-Range Beacons in Ship Navigation, by Yu. K. Baranov, 88 pp. RUSSIAN, bk, Ispol'zovaniye Sektornykh Radiomayakov v Sudovozhdenii, Leningrad, 1958.
Dept of Navy Tr 4537/NOO Tr 239

Mechanical Impulse Transmitted to Electrodes in Electric Discharge Between Bimetallic Electrodes, by I. G. Nekrashevich, I. A. Bakuta, 6 pp. RUSSIAN, per, Iz Ak Nauk BSSR, Ser-Fiz-Tekh Nauk, No 2, 1964, pp 47-50. 9699618
FTD-TT-65-1001

Calculation of Directional Properties of Surface Antennas with Linear Squared and Cubic Phase distortions, by E. Yu. Shered'ko. RUSSIAN, per, Iz VUZ, Radiotekh, Vol VIII, No 3, 1965, pp 322-329.
*Dept of Navy/APL/JHU J-758

The Elements of the Electrostatic Interaction Operator Matrix for One Electron Outside a Half-Filled Shell of d Electrons, by A. V. Karosene, and A. Iu. Savukinas, et al, 19 p. RUSSIAN, per, Litovskii Fizicheskii Sbornik, Vol IV, No 2, 1964, pp 213-231. 9699177
AFCLR T-R-465

Harmonics of the Current Passing Thru A Germanium Sample in High Electric Microwave Field. RUSSIAN, per, Litov Fiz Sbornik, 1964, pp 479-484. ACSI I-9427
ID 2204017466

Thermoelectric Force of Hot Electrons, and Electroconductivity of Germanium in the Region Low Electric Fields, by K. K. Repshas, Yu. K. Pozhela. RUSSIAN, per, Litov Fiz Sbornik, 1964, pp 485-490. ACSI I-9427
ID 2204017466

Scientific
Electronics (Contd)

The Influence of Surface on the Electroconductivity of Germanium and Silicon in High Electric Fields, by S. P. Kalvenas, Yu. K. Pozhela. RUSSIAN, per, Litov Fiz Sbornik, 1964, pp 491-496. ACSI I-9427
ID 2204017466

Temperature Dependence between Lifetime and Diffusion of Non-Base Current Carriers in Base of Semiconductor Triode. RUSSIAN, per, Litov Fiz Sbornik, 1964, No 4, pp 559-564. ACSI I-9427
ID 2204017466

New Bulgarian Electric Loaders, by Z. Georgiyev, G. Stoilov, 20 pp. RUSSIAN, per, Mekhanizatsiya i Avtomatizatsiya Prorvodstva, No 5, May 1965, pp 47-50. ACSI I-8606
ID 2204054865

Magnetic Operational Memory Device of an Information-Logical Machine, by K. K. Brilling, L. S. Levinskiy, 19 pp. RUSSIAN, per, Nauch-Tekh Informat, No 1, 1965, pp 32-37. 9698942
FTD-TT-65-1562

Interaction between a Spherical Shock Wave and Free Surface Water Caused by the Explosion of a Deep Charge, by B. I. Zaslavskiy, 16 pp. RUSSIAN, per, PMTE, Vol IV, 1964, pp 57-65. Dept of Navy Tr 4519/ONI Tr 2109

An Investigation of Coatings used as Anode Screens in Cathodic Protection, by V. P. Bardina, 12 pp. RUSSIAN, rpt, Proceedings of the Central Scientific Research Inst. for the Merchant Marine, Issue 57, 1964, pp 23-36. 9699848
Dept of Navy/ONI Tr No 2062

Scientific
Electronics (Contd)

Automatic Control and Methods
of Electric Measurements, Vol II,
Theory of Data Processing Systems
Automatic Control Systems,
Electric Measurement of Nonelectric
Quantities, by K. B. Karandeyev.
RUSSIAN, rpt, Proceedings of the
4th Conference on Automatic Control
and Methods of Electric Measurement,
1964.
NASA TT F-384

Attainable Outputpower of Semiconductor
Stabilized Power Supply Units, by R. Mockel.
GERMAN, per, Radio und Fernsehen, Vol XIII,
No 24, 1964, pp 755-756.
ACSI I-9360 F
ID 2204015366

Construction Guide for an Intermediate
Frequency Transistorized Amplifier for
10.7 Megacycles, by F. Steffen.
GERMAN, per, Radio und Fernsehen, Vol XIII,
No 24, 1964, pp 757, 758.
ACSI I-9360 G
ID 2204015366

Construction Guide for a Transistorized
Square Wave Generator, by D. Borkmann.
GERMAN, per, Radio und Fernsehen, Vol XIII,
No 24, 1964, pp 758-760.
ACSI I-9360 H
ID 2204015366

Temperature Stabilization with Hot Conduc-
tor Resistances, by G. Ruder.
GERMAN, per, Radio und Fernsehen, Vol XIII,
No 24, 1964, pp 760, 761.
ACSI I-9360 I
ID 2204015366

Sector Radio-Range Beacons,
by A. I. Mzhemitskiy, 13 pp.
RUSSIAN, Sektornyye Radiomayaki, Moscow,
1963.
Dept of Navy Tr 4489/NOO Tr 248

Sector Radio-Range Beacons with Radiating
Equisignal Zone, by Ye. Ya. Shchegolev, 24 pp.
RUSSIAN, rpt, Sektornyye Radiomayaki s
Yevyem Ravnosignal'nykh Zon, Moscow, 1956.
Dept of Navy Tr 4488/NOO Tr 246

Scientific
Electronics (Contd)

Instruction System and Programming for
the Besm-2, by V. L. Bazilevich,
L. V. Bazilevich, 408 pp.
RUSSIAN, bk, Sistema Komand i Programirovaniye
Diya Besm-2, Moscow, 1964, 342 pp. 9699829-V
FTD-TT-65-111

Can a Machine Think?, by V. Tugarinov,
7 pp.
RUSSIAN, np, Sovetskaya Molodezh', No 11,
Jan 12, 1965, p 3. 9698947
FTD-TT-65-789

Equipment for Letter-Printing Radio
Communications, by V. P. Yagodin.
RUSSIAN, bk, Tekhnika Bukvopetayushchey
Radiosvyazi, 1961, 1-150 pp.
*JPRS/DC-12117

Transfluxors in Remote Control Devices,
by L. D. Kravchenko.
RUSSIAN, bk, Transflyuksory v Ustroystvakh
Teleupravleniya, 1964, 83 pp.
*CFSTI
NASA TT F-347
TT 66-51032

Transistors and Semiconductor Diodes,
674 pp.
RUSSIAN, bk, Tranzistory i Poluprovodnikovyye
Diody, Moscow, 1963, 648 pp. 9699823-V
FTD-TT-65-582

Investigating the Ohmic Resistance of
Ethanol Coatings, by L. A. Suprun, 9 pp.
RUSSIAN, per, Trudy Tsentral Nauch Issled
Inst Mekh Fiz, No 57, 1964.
Dept of Navy Tr 4504/ONI Tr 2060

Transient Processes of Storage and Decay
of Non-Equilibrium Carriers in Semiconduc-
tor Diodes, by Gribnikov, Tkhonik, 11 pp.
RUSSIAN, per, Ukrains Fiz Zhur, Vol IX,
No 8, 1964, pp 851-861.
ACSI I 9370
ID 2204015966

Scientific
Electronics (Contd)

Equipment for the Transmission and Reception of Information by Means of a Multifrequency Code, 11 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965.
JPRS 33960

Krasnodar Telegraph Office Is a Communist-Labor Enterprise, 7 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

In a Front-Rank Cable Main-Line District, 9 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

A Compressor and Signal System for the Cables of City Telephone Exchanges, 15 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

A Device for Remote Monitoring of the Modulation Level of Radio-Broadcasting Transmitters, 9 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965.
JPRS 33960

The Control Station and Base Stations of a Radio-Relay Line, 7 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

The Postal Service Furnished to the Population Must be Improved, 8 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965
JPRS 34263

The Methods of Standardizing the Consumption of Materials and Spare Parts at the Radio-Communication and Radio-Broadcasting Enterprises, 9 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965,
JPRS 34263

Scientific
Electronics (Contd)

The Special Characteristics of Television Broadcasting in Kirgiz SSR, 10 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965
JPRS 34263

The Engineering and Technical Personnel at Vladivostok Long Distance Telephone Office Is Improving the Utilization of the Equipment, 6 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965.
JPRS 34263

The Stabilization of the Supply Voltage at the Television Ultrashort-Wave Transmitting Radio Stations, 12 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 12, 1965.
JPRS 34263

The Pulse Circuits of the Repetition-Rate Scalers Using Ferrotransistor Stages, 9 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965.
JPRS 34263

Organization of Moving a Long Distance Telephone Office to a New Building, 6 pp.
RUSSIAN, per, Vestnik Svyazi, Vol XXV, No 11, 1965
JPRS 33960

A Method of Increasing the Electrical Length of the Antennas, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV, 1965.
JPRS 34263

Poliz-63 Interpreter, by Ye. A. Zhogolev, 17 pp.
RUSSIAN, per, Zhur Vych Matemat i Mate Fiz, Vol V, No 1, 1965, pp 67-76. 9698955
FTD-TT-65-1658

Sonic and Ultrasonic Oscillations During Dynamic Tests of Materials, by V. A. Kuz'menko, 211 pp.
RUSSIAN, bk, Zvukovyye i Ul'trazvukovyye Kolebaniya pri Dinamicheskikh Ispytaniyakh Materialov, 1963, pp 1-152. 9698825-V
FTD-MT-64-385

Scientific
Electronics (Contd)

Bellows-Type Device for Hydraulic Remote Control of an Actuator, by I. S. Timofeyev, 7 pp.
RUSSIAN, per, Patent No 163047, 21 Jun 1962, 3 pp. 9699041
FTD-TT-65-1129

Method of Separating One Amplitude-Modulated Signal From Two Mixed AM Signals With Superposed Spectra, But Different Carriers, by Yu. N. Babanov, 6 pp.
RUSSIAN, per, Patent No 165780, 2 Mar 1961, 2 pp. 9699036
FTD-TT-65-1174

Photoelectric Tracking Device, by G. P. Katys.
RUSSIAN, Patent No 160777.
*FTD-TT-66-81

Rupturing Device for a Shock Tube Diaphragm, by V. D. Mikhalevskiy.
RUSSIAN, Patent No 165920
*FTD-TT-66-85

Pulse Voltmeter, by Ye. Bobkov.
RUSSIAN, Patent No 171031.
*FTD-TT-66-101

A Method for Measuring Coding Errors, by A. G. Likiardopulo.
RUSSIAN, Patent No 169294.
*FTD-TT-66-92

Method of Combining the Power of Lasers with the Coherent Operation of Each, by M. Ye. Zhabotinskiy.
RUSSIAN, Patent No 172357.
*FTD-TT-66-107

Radio Telemetry, by Hsun Hai (6061 3189), 5 pp.
CHINESE, per, Hang-k'ung Chih-shih, Vol II, No 3, 7 Mar 1965, pp. 11-13.
JPRS 34378

Certain Problems of Pneumatic Computing Devices, by Liu Pao, 13 pp.
CHINESE, per, Tsu Tung Hua Hsueh Pao, Vol II, No 1, 1964, pp 53-58. 9699053
FTD-TT-64-1126

Scientific
Electronics (Contd)

Analysis of a New Method of Focusing an Electron Beam, by Liu Sheng-kang (0491 4141 4854), 18 pp.
CHINESE, per, Wu-li Hsueh-pao, Vol XXI, No 2, Feb 1965, pp. 390-401.
JPRS 33942

EOD Electrooptical Rangefinder, CZECHOSLOVAKIA, per, Jemna Mechanika a Optika, No 6, 1965.
*ACSI I-9418-C
ID 2204017866

The Cut-off Frequency of Transistors, by Ladislav Havlik.
CZECH, per, Slaboproudy Obzor, No 9, 1963, pp 534-540.
ACSI I-9214
ID 2204005466

A Novel Method of Base Formation in Germanium Transistors, by Milos Rothbauer, Bruno Sopko, 8 pp.
CZECH, per, Slaboproudy Obzor, No 12, 1963, pp 690-693.
ACSI I-9212
ID 2204005266

The Properties of a Czechoslovak made Output Travelling Wave Tube 31 SE I, by J. Horna, 14 pp.
CZECH, per, Slaboproudy Obzor, No 4, 1964, pp 186-192.
ACSI I-8498 B
ID 2204050565

Log-Periodic Antennas for Short Wave Applications, by I. Jerabek, 19 pp.
CZECH, per, Slaboproudy Obzor, No 4, 1964, 193-201.
ACSI I-8498 C
ID 2204050565

New Ring Counter With Tunnel Diodes, by V. Spany, 6 pp.
CZECH, per, Slaboproudy Obzor, No 4, 1964, pp 216-218.
ACSI I-8498 D
ID 2204050565

Scientific
Electronics (Contd)

Four-Layer Diodes, by J. Tomasek, 28 pp.
CZECH, per, Slaboproutdy Obzor, Vol XXV,
No 5, 1964, pp 247-255. 9699824-V
FTD-TT-65-369

Technology of Four-Layer Diodes and
Silicon Controlled Rectifiers, by
Zdenek Fibich, 26 pp.
CZECH, per, Slaboproutdy Obzor, Vol XXV,
No 5, 1964, pp 262-269. 9699824-V
FTD-TT-65-369

Circuits With Four-Layer Diodes, by
J. Tomasek, 25 pp.
CZECH, per, Slaboproutdy Obzor, Vol XXV,
No 5, 1964, pp 270-277. 9699824-V
FTD-TT-65-369

Measuring Four-Layer Diodes, by J. Tomasek,
16 pp.
CZECH, per, Slaboproutdy Obzor, Vol XXV,
No 5, 1964, pp 288-292. 9699824-V
FTD-TT-65-369

Special Four-Layer Semiconductor Devices,
by Adolf Klimek, 18 pp.
CZECH, per, Slaboproutdy Obzor, Vol XXV,
No 5, 1964, pp 301-306. 9699824-V
FTD-TT-65-369

Measuring Instrument for Transistor Fre-
quency f_1 and Parameter h_{21e} ,
by Frantisek Jelinek.
CZECH, per, Slaboproutdy Obzor, No 7, 1964,
pp 410-416.
ACSI I-9022
ID 2204067965

A Contribution to the Theory and Design of
Electrodeless Capacitance Transducers,
by Radoslav Porizek.
CZECH, per, Slaboproutdy Obzor, No 9, 1964,
pp 543-547.
ACSI I-9024
ID 2204068165

New Method of Measuring Current Gain and
Cut-Off Frequency of Transistors,
by J. Hrycej.
CZECH, per, Slaboproutdy Obzor, No 3, 1965,
pp 129-138.
ACSI I-8853 A
ID 2204064565

Scientific
Electronics (Contd)

Transistorized D.C. Amplifiers with
Negative Feedback, by B. Mirtes.
CZECH, per, Slaboproutdy Obzor, No 3, 1965,
pp 157-165.
ACSI I-8853 B
ID 2204064565

Band-Pass Filters with Non-concentrated
Resistance and Capacitance, by J. Novakova.
CZECH, per, Slaboproutdy Obzor, No 3, 1965,
pp 166-172.
ACSI I-8853 C
ID 2204064565

Graphic Determination of the Capacitance
Response in Transducers with a Non-Homo-
geneous Dielectric, by Vladimir Ruzek, 3 p.
CZECHOSLOVAKIA, per, Slaboproutdy Obzor,
No 8, 1965, pp 484-486.
*ACSI I-9425-C
ID 2204017166

Electrodes a Diffusion Laterale,
by D. Doniat.
FRENCH, rpt, Thesis, Section IV, Paris,
1965.
*NASA TT F-9852

Comparison of the Construction and Charac-
teristics of Metal Film and Carbon Film
Resistors, by K. Schar.
FRENCH, per, Bulletin de l'Association Suisse
des Electriciens, Vol LV, No 21, 1964,
pp 1059-1065. 9232033
UCRL Tr 1289(L)

Couple Potential and Concentration Distri-
butions in Electrochemical Cells, by
Michel Guillou.
FRENCH, per, Bull. Soc. Franc. Electriciens,
Vol 5, 439 (1964).
AEC UCRL tr 1300(L)

High Tension Performances of Electrostatic
Separators, by P. Coet
FRENCH, rpt, CERN Note MPS/Int MU/S 66-1.
*AEC 2349

The Working of PS Electrostatic
Separators During 1965,
by P. Coet.
FRENCH, rpt, CERN Note MPS/MU/S 66-1.
*AEC 2348

Scientific
Electronics (Contd)

Study of a Nuclear Electric
Generator for Space.
FRENCH, rpt, Etude d'un Generateur
Electrique Nucleaire Spatial, Feb 1965,
34 pp.
NASA TT F-9806

Device for Converting the Ionizing
Energy, Emerging From a Nuclear
Reactor, Into Electricity, by
S. Klein, P. Kraus.
FRENCH, rpt, Paper Presented at the 6th
AGARD Combustion and Propulsion
Colloquium, Cannes, March 16, 20, 1964.
NASA TT F-9598

Electron Probe Microanalysis of
Light Elements, by R. Castaing,
J. Descamps.
FRENCH, per, Recherche Aeron.
No 63, 1958, pp 41-52.
NASA TT F-9811

Irradiation by Laser Effect.
FRENCH, per, Revue General D'Electronique,
No 227, Oct 1965, pp 21-25.
*ACSI I-9319
ID 2204013466

Possibilities of the Application of
Super-Conductors to Particle Accelerators,
by A. Septier.
FRENCH, per, Le Vide Vol XX, No 119,
1965, pp 328-342.
*AEC 2347

Apparatus for Prevention of Double Connections,
FRENCH, pat, Patent No 1,347,787.
Dept of Comm
Patent Office

Telecommunications Grew Powerfully in
1964, by Jorma Koshkinen, 13 pp.
FINNISH, per, Lennattaja, No 2, 1965,
pp 18.
DIA LN 245-65

Growth of Manual Exchange telephone Traffic
Has Stopped, by Toivo Hiltunen, 13 pp.
FINNISH, per, Lennattaja, No 2, 1965,
pp 36-37.
DIA LN 245-65

Scientific
Electronics (Contd)

Telecommunications Profit 9.9 Millions,
Postal Profit 6.7 Millions, 13 pp.
FINNISH, per, Lennattaja, No 2, 1965,
pp 39.
DIA LN 245-65

Telegraph Traffic 1964, by Heimer Fast,
13 pp.
FINNISH, per, Lennattaja, No 2, 1965,
pp 40-41.
DIA LN 245-65

Telephones in the Automatic Long Distance
Network, 1955-1965. 13 pp.
FINNISH, per, Lennattaja, no 2, 1965,
pp 45.
DIA LN 245-65

57mm automatic Cannon; Electrical
Equipment, by AB Bofors, 59pp
FRENCH, rpt, AB Bofors, Dec 1953
DIA LN 1-66 C

The Initial Conditions and Phase
Oscillations of High Particle Currents
in an Electron Synchrotron, by
C. Passow.
GERMAN, rpt, Deutsches Elektronen-
Synchrotron DESY, April 1964.
*AEC SLAC Trans 39
EDC April 1966

Electron-Photon Cascade in Lead Due
to Primary Particles of 6 Gev, by
U. Voelkel.
GERMAN, rpt, Deutsches Elektronen-Synchrotron,
Hamburg July 1965, 90 pp.
*AEC SLAC Trans 41
EDC April 66

Electronic Instrumentation Equipment Production
Program 1964.
GERMAN, bk, Elektronische Messgeraete, 1964,
Czechoslovakia.
Dept of Navy Tr 4438
ONI Tr 2041

Scientific
Electronics (Contd)

Operating Conditions of a High-Current
Glow Discharge, by W. Weizel,
Berthold Brandt.

GERMAN, rpt, Forschungsberichte des
Wirtschafts-und Verkehrsministeriums
Nordrhein-Westfalen.

*ACSI I-9622
ID 2204021166

Coincidence Filters with Short Pulses,
by F. Jenik.

GERMAN, per, Kybernetik, Vol II, No 6,
1965, pp 287-315.

*Dept of Navy JHU/APL J-753

The Problem of the Maximum Measurement
Frequency of Tangential Amplitude - Modula-
tion Measurement Transformers (Part II),
GERMAN, per, Messen Steuren-Regeln, No 6,
1965, pp 204-207.

*ACSI I-9295
ID 2204011066

Developmental Trends in Modern Electro-
acoustics, by L. Keibs, 6 p.

GERMAN, per, Nachrichtentechnik, No 7,
1965, pp 241-246.

*ACSI I-9424-A
ID 2204017566

Compatible Stereo-Ambiophonic Trans-
mission of Sound on Two Channels, by
L. Keibs, 8 p.

GERMAN, per, Nachrichtentechnik, No 7,
1965, pp 246-253.

*ACSI I-9424-B
ID 2204017466

New Electrin Tubes and Semiconductors
Diodes of VEB Plant for TV and Electronics
by Sturm, 3 p.

GERMAN, per, Nachrichtentechnik, No 7,
1965, pp U49-U51.

*ACSI I-9424-C
ID 2204017566

Microelectronics Based on Thin Film
Technique, by K. Krah1, 6 p.

GERMAN, per, Nachrichten Technuk, No 8,
1965, pp 287-292.

*ACSI I-9294
ID 2204011066

Scientific
Electronics (Contd)

General Principles of Electromechanical
Tranducers, by F. A. Fischer 5 pp.

GERMAN, per, Nachrichten-technische Z.,
Vol XVII, No 8, 1964, pp 388-392.

Dept of Navy 4545/USRL Tr 54

A New Mechanism for the Saturation of
Photocurrents, by H. Kiess, 14 pp.

GERMAN, per, Physica Status Solidi, Vol IV,
1964, pp 117-124. 9231782

AEC-SC-T-65-765

Interpretation of Electron-Microscopic
Contrast Phenomena in Vacancy Agglomerates
of Neutron-Irradiated Copper, by M. Ruhle.
GERMAN, per, Phys Stat Sol, Vol XI, 1965,
pp 819-829. 9232017

AEC-ANL-Tr-259

Radar Network of the Elbe and in the Harbor
of Hamburg.

GERMAN, per, Radarkette auf Elbe und im
Hafen Hamburg, pp 1-9.

*Dept of Navy/Noo Tr 284

Electron-Microscopic Studies on the
Development of Normal X-Ray-Irradiated
Cells of Wheat Embryos, by A. Haber.

GERMAN, per, Radiation Botany, Vol V,
1965, pp 403-416.

*AEC ORNL-Tr-1120
EDC March 22, 1966

The GaAs Semiconductor Laser, by
A. Moeschwitzer, 7 pp.

GERMAN, per, Radio und Fernsehen, No 16,
1964, pp 488-490. 9698956

FTD-TT-65-891

The Employment of Complex-Microelectronic
Components in Electrical Measuring Equip-
ment, by J. Herrfurth.

GERMAN, per, Radio und Fernsehen, Vol XIII,
No 24, 1964, pp 742-744.

ACSI I-9360 A
ID 2204015366

Scientific
Electronics (Contd)

A Low-Resistance Crystal Microphone for Transistorized Amplifier, by J. Raue.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 745, 746.
ACSI I-9360 B
ID 2204015366

New Storage Elements for Electronic Digital Computers, by Hans-Juergen Schiller, 21 pp.
GERMAN, per, Radio und Fernsehen, No 24, 1964, pp 746-749. 9699009
FTD-TT-65-1663

Mechanical Self-Resonances of Diodes.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 750-752.
ACSI I-9360 C
ID 2204015366

Maximum Frequency Triode HT 711.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, p 752.
ACSI I-9360 D
ID 2204015366

Physical Bases of Semiconductor Technology.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 753, 754.
ACSI I-9360 E
ID 2204015366

Attainable Outputpower of Semiconductor Stabilized Power Supply Units, by R. Mockel, 2 p.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 755-756.
*ACSI I-9360-F
ID 2204015366

Construction Guide for an Intermediate Frequency Transistorized Amplifier for 10.7 Megacycles, by F. Steffen, 2 p.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 757-758.
*ACSI I-9360-G
ID 2204015366

Construction Guide for a Transistorized Square Wave Generator, by D. Borkmann, 3 p.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 758-760.
*ACSI I-9360-H
ID 2204015366

Scientific
Electronics (Contd)

Temperature Stabilization with Hot Conductor Resistances, by G. Ruder, 2 p.
GERMAN, per, Radio und Fernsehen, Vol XIII, No 24, 1964, pp 760-761.
*ACSI I-9360-I
ID 2204015366

Welding and Cutting With Electron Beams, by K. H. Steigerwald.
GERMAN, per, Schweissen und Schneiden, Vol XII, No 3, 1960, pp 89-95.
Dept of Navy Tr 4486/APL/JHU T-1616

Suppression of Radio Interference from Ignition Systems of Motor Vehicles, by W. Walter.
GERMAN, per, Technische Mitteilungen PTT, Vol XXXVIII, No 5, 1960, pp 153-164.
*Dept of Navy/APL/JHU J-763

Destruction of the Luminescence of Cathode Ray Tube Screens by Electrons, by K.N.J. Rottgardt.
GERMAN, per, Z Angew Phys, No 6, 1954, p 160.
*FTD-TT-65-1188

Rapid Condensate Discharger.
GERMAN, pat, Patent No 800,228.
Dept of Comm
Patent Office

Semiconductor Arrangement Provided with a Highly Resistant Thin Semiconductor Layer, GERMAN, pat, Patent No 1,054,544.
Dept of Comm
Patent Office

Numerical Calculations of the Space-Charge Effects in a Storage Ring for Electrons and Positrons, by M. Bassetti.
ITALIAN, rpt, Laboratori Nazionali di Frascati del CNEN, Nota Interna No 135, 5 May 1962.
*AEC SLAC Trans 38
EDC March 1966

Scientific
Electronics (Contd)

Experiments in Simulation of a Machine, which is Capable of Learning, by Livio Rebolia. ITALIAN, per, Rivista Methodos, Vol XII, No 48, 1960, pp 1-10.
*Dept of Navy/NRL

On the Free Lateral Vibration of a Beam with Variable Cross Section, by Tadahiko Kawai, 14 pp. JAPANESE, rpt, Feb 1962. 9699702
Dept of Navy/ONI Tr No 2014

Industries of Military Significance: Electrical Equipment. JAPANESE, rpt, February 1965. DIA 2222008466

Present State and Recent Developments of the Lightning Arrester for AC Power Systems, by the Study Committee on Lightning Arrester, by Denki Gakkai. JAPANESE, per, Denki Gakkai Gijutsu Hokoku, No 33, 1959.
Dept of Interior
TK3248
D39

A Germanium Double Base Photodiode and its Applications, by A. Ambroziak. POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 181-185.
*ACSI I-9245 A
ID 2204009366

Equivalent Circuits and Properties of Transistors with Current Carriers Multiplication, by A. Ambroziak. POLISH, per Archiwum Elektrotechniki, No 11, 1962, pp 229-240.
*ACSI I-9245 B
ID 2204009366

Properties of Matrices of Transistors with Current Carriers Multiplication, by A. Filipkowski. POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 757-764.
*ACSI I-9245 D
ID 2204009366

Scientific
Electronics (Contd)

Automatic Frequency Correction Circuit for a Klystron at 3 CM Band, by J. Twarowski. POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 819-822.
*ACSI I-9245 E
ID 2204009366

The Effect of the Time of Alloying on Some Properties of Germanium Tunnel Diodes, by B. Mroziewicz. POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 829-831.
*ACSI I-9245 F
ID 2204009366

On the Correlation between Crystal Orientation and Some Properties of Tunnel Diodes, by B. Mroziewicz. POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 832-834.
*ACSI I-9245 G
ID 2204009366

About Dynamic Optimization of Aperiodic Signal Measuring Apparatus, by A. Zuchowski, 9 pp. POLISH, per, Pomiary, Automatyka, Kontrola, No 3, 1964, pp 101-102. 9699068
FTD-TT-65-712

Instrumental Methods of Analysis of some Indium Alloys for use in Semiconductor Techniques, by Zygmunt Kuzma. POLISH, per, Przegląd Elektroniki, No 1, 1964, A. pp 9-18; B. pp 19-27; C. pp 27-38.
*ACSI I-9515 A-B-C
ID 2204091466

Estimates of Impurity Concentrations in Silicon from Resistivity Measurements, by Andrzej Brochocki. POLISH, per, Przegląd Elektroniki, No 4, 1964 pp 153-160.
*ACSI I-9514 A
ID 2204019366

Photoconductive CdTe Layers, by Anna Pajaczkowska. POLISH, per, Przegląd Elektroniki, No 4, 1964 pp 161-165.
*ACSI I-9514 B
ID 2204019366

Scientific
Electronics (Contd)

A Method of Obtaining Monochromatic Current-Voltage Characteristics in Studies on the External Photoelectric Effect, by Jozef Wojas.
POLISH, per, Przegląd Elektroniki, No 4, 1964, pp 165-170.
*ACSI I-9514 C
ID 2204019366

Certain Electronic Phenomena in Organic Dielectrics, by Marian Kryszewski.
POLISH, per, Przegląd Elektroniki, No 5, 1964, pp 205-216.
*ACSI I-9513
ID 2204019266

Results of the Investigations of Cup-Shaped Ferrite Core Inductor Design Optimisation, by H. Dutkowski.
POLISH, per, Przegląd Elektroniki, No 5, 1964, pp 229-236.
*ACSI I-9512 A
ID 2204019166

The Possibilities of Stable L-C Ferrite Core Filters Design, by H. Dutkowski.
POLISH, per, Przegląd Elektroniki, No 5, 1964, pp 237-244.
*ACSI I-9512 B
ID 2204019166

Circuitual Reliability Testing of Ferrite Operational Memory, by Jerzy Danda.
POLISH, per, Przegląd Elektroniki, No 5, 1964, pp 244-248.
*ACSI I-9512 C
ID 2204019166

A Study of Surface Structural Defects of Silicon Single Crystals by Etching and Radioactive Tracer Decoration, by Karol Akerman.
POLISH, per, Przegląd Elektroniki, No 7, 1964, pp 337-345.
*ACSI I-9511 B
ID 2204019066

Thermistor having Positive Coefficient of Temperature, by Gustaw Budzynski.
POLISH, per, Przegląd Elektroniki, No 9, 1964, pp 383-387.
*ACSI I-9510 A
ID 2204018966

Scientific
Electronics (Contd)

Silicon Photocell, by Andrzej Ambroziak.
POLISH, per, Przegląd Elektroniki, No 9, 1964, pp 388-390.
*ACSI I-9510 B
ID 2204018966

Effects of Stability and Reliability Investigations of Styroflex, Mica and Paper Condensers, by Eugeniusz Przybył.
POLISH, per, Przegląd Elektroniki, No 10, 1964.
*ACSI I-9508
ID 2204018766

Surface Potential Measurements of Cold Cathodes Covered with MgO Layer, by Ryszard Zuchkowski.
POLISH, per, Przegląd Elektroniki, No 10, 1964, pp 477-485.
*ACSI I-9509
ID 2204018866

Evaporated Hall Generators of Mercury-Telluride HN13, and HN14, by Andrzej Kobus, Stanisław Ignatowicz, 8 pp.
POLISH, per, Przegląd Elektroniki, No 12, 1964, pp 632-638.
ACSI I-9507 A
ID 2204018666

New Developments in the Field of Perminvar Ferrites and Their Applications, by L. Stanciulea, A. Fridman, 8 pp.
POLISH, per, Przegląd Elektroniki, No 12, 1964, pp 639-645.
ACSI I-9507 B
ID 2204018666

On the Optimum Number of Conductors in the Slot of an Alternating-Current Electrical Machine, by T. Dordea.
RUMANIAN, per, Electrotehnica, Vol VII, No 3, 1959, pp 80-87. 9231992
UCRL Tr 1285(L)

Low-Impedance Pulse Generator for Intense Short Pulses, by O. Nistor. 33 pp.
RUMANIAN, per, Telecomunicatii, No 5, 1965, pp 147-151.
ACSI I-7870
ID 2204039365

Scientific
Electronics (Contd)

Open Circuit TV System Resolve of Transient Signals, by E. Camachl. 33pp.
RUMANIAN, per, Telecomunicatii, No 5, 1965, pp 152-157.
ACSI I-7870
ID 2204039365

One Transistor Comvined Feed-Back Amplifier, by M. Popescu. 33 pp.
RUMANIAN, per, Telecomunicatii, No 5, 1965, pp 164-165.
ACSI I-7870
ID 2204039365

Electroluminescence, by O. Vanek.
SLOVAK, per, Slaboproudy Obzor, No 3, 1965, p 121.
ACSI I-8853E
ID 2204064565

Five Year Telecommunications Plan, 1963-1967, 51 pp.
SPANISH, rpt, 1963, Caracas, Venezuela.
DIA LN 298-65

Present Conditions of the Telecommunications Service in Peru and the National Telecommunications Plan, by H.K.A. Finck, J. Hoppen, et al. 36 pp.
SPANISH, rpt, July-Nov 1963.
DIA LN 156-65

Rural Electrification in Finland, by RGM. 8 pp.
SWEDISH, per, Teknisk Tidskrift, No 38, pp 1040a
DIA LN 4-66 a

Scientific
Engineering

New Materials in Engineering, by Ye. I. Bel'skiy, 19 pp.
RUSSIAN, per, Minsk, 1964, pp 3-9; 43-55.
9699670
Dept of Navy/ONI Tr No 1089

Reinforced-Concrete Span With Through Girders Spanning 55 Meters Under a Railroad Load, by K. K. Yakobson, V. P. Ustinov. 8 pp.
RUSSIAN, per, Beton i Zhelezobeton, No 6, pp 31-33.
DIA LN 293-65

Wider Use of Computer Equipment and the Critical-Path Method Needed in Construction, 5 pp.
RUSSIAN, per, Byulleten' Stroitel'noy Tekhniki, No 10, Oct 1965, pp. 1-3.
JPRS 33878

Dynamic Balancing of Rotors of Gyroscopic Systems, by M. P. Kovalev, S. P. Morzhakov, 291 pp.
RUSSIAN, bk, Dinamicheskoye Uravnovesivaniye Rotorov Girokopieskikh Sistem, Moscow, 1962, pp 1-258. 9699838-V
FTD-MT-64-36

Engineering and Cost Bases for the Selection of the Type of Power for Domestic Needs in Cities of the USSR, by B. L. Ayzenberg, V. M. Dmitriyev, et al, 9 pp.
RUSSIAN, per, Elektrichestvo, No 11, 1965, pp 71-74.
DIA LN 9-66

Computation of Temperature Fields and Stresses in the Cooled Rotor of a Gas Turbine on Starting, by S. A. Mokrushin, Ya. M. Gusak, 19 pp.
RUSSIAN, per, Energomash, No 7, 1964, pp 11-15. 9698945
FTD-TT-65-1023

Results of Testing the Stages of Centrifugal Pumps With Various Flow Twists at the Input into the Wheel, by V. M. Shindman, 14 pp.
RUSSIAN, per, Energomash, No 11, 1964, pp 14-17. 9699117
FTD-TT-65-1027

Scientific
Engineering (Contd)

A Study of Systems of Constant-Power Regulation of Solar-Furnace Heat Flux, by A. V. Vartanyan and Ya. T. Shermazanyan, 6 pp.
RUSSIAN, per, Geliotekhnika, Vol 1, No 4, 1965, pp. 5-10.
JPRS 34321

Determining Optimum Dimensions of High-Temperature Cylindrical Solar-Energy Cavity Receivers, by I. M. Rubanovich, 12 pp.
RUSSIAN, per, Geliotekhnika, Vol 1, No 4, 1965, pp. 11-22.
JPRS 34321

Determining Aerodynamic Coefficients of Solar Distillation Units to Compute Vapor-Air Mixture Leakage, by P. A. Dzhubaliyeva, 6 pp.
RUSSIAN, per, Geliotekhnika, Vol 1, No 4, 1965, pp. 31-36.
JPRS 34321

The Effect of Solar Distiller Chamber Non-Airtightness on Distiller Technical Characteristics under Heat Pressure, by P. A. Dzhubaliyeva, 5 pp.
RUSSIAN, per, Geliotekhnika, Vol 1, No 4, 1965, pp. 37-42.
JPRS 34321

Heliotekhnics.
RUSSIAN, per, Geliotekhnika, No 5, 1965, pp 5-62.
*JPRS/SF-4142

Chronicle, 6 pp.
RUSSIAN, per, Geodeziya i Karto, No 6, 1965, pp 74-77.
ACSI I-8572
ID 2204051565

The Anniversary of a Great Scientist and Talented Inventor, Fedor Vasil'yevich Drobyshev, 3 pp.
RUSSIAN, per, Geodeziya i Kartografiya, No 8, 1965.
ACSI I-8897
ID 2204065965

Scientific
Engineering (Contd)

Closed Explosions Accompanying Hypabyssal Intrusions and Their Role in the Formation of Ore Deposits, by P. F. Ivankin, 16 pp.
RUSSIAN, per, Geologiya i Geofizika, No 10, 1965, pp. 23-33.
JPRS 34072

Use of Magnetic Recording in Deep Seismic Sounding, by B. P. Mishen'kin, 12 pp.
RUSSIAN, per, Geologiya i Geofizika, No 10, 1965, pp. 118-127.
JPRS 34072

Exhibits of Contemporary Geodetic and Photogrammetric instruments, by S. P. Shokin 15 pp.
RUSSIAN, per, Geodeziya i Kartografiya, Dec. 1965, pp 3-17.
*ACSI I-9325
ID 2204014066

Engineer Rescue Operations in a Nuclear-Stricken Area, by I. D. Volkov, 129 pp.
RUSSIAN, per, Inzhen-Spasatel Rabot v Ochagye Yader Porazhen, Moscow, 1965, ACSI I-9075
ID 2204070565

Strong Deformation of a Circular Membrane Fastened Around the Contour of a Deformable Ring, by Yu. I. Solodilov.
RUSSIAN, per, Inzhen Zhur, Vol V, No 2, 1965, pp 376-381.
*Dept of Navy JHU/APL J-739

Hydrodynamics of a Fluidized Bed in Interstitial Channels of a Packing, by A. P. Baskakov.
RUSSIAN, per, Inzhenerno-Fiz Zhur, Vol V, No 12, 1962, pp 48-53.
*AEC
EDC May 1, 1966

Measuring Devices, by L. S. Kuznetsova, A. Ye. Natveyeva, 587 pp.
RUSSIAN, bk, Izmeritel'nyy Instrument, Moscow, 1963, 488 pp. 9699828-V
FTD-TT-65-314

Scientific
Engineering (Contd)

Strong Injection into a Turbulent Boundary Layer, by M. M. Gurfnik.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh, No 5, 1965, pp 152, 153.
*Dept of Navy/APL/JHU J-769

Determination of Stresses in a Circular Ring Under the Action of Concentrated Forces, by M. Z. Narodetskiy.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN, No 1, 1948, pp 7-18.
Dept of Navy
NAVY Tr No 4495/NRL 1047

Stress Concentration Close to Rough Surface of Elastic Solid, by V. A. Pal'mov, 5 p.
RUSSIAN, per, ANSSR Izvestiya OTN Mekhanika i Mashinostroyeniye, No 3, 1963, pp 104-108.
*FTD-TT-66-66

On the Theory of Laminated Plate, by V. Z. Bolotin, 8 p.
RUSSIAN, per, ANSSR Izvestiya OTN Mekhanika i Mashinostroyeniye, No 3, 1963, pp 65-72.
*FTD-TT-66-65

Fourth Conference of the Geographic Society of the USSR.
RUSSIAN, per, Izv. Akad. Nauk SSSR; Seriya Geograficheskaya, No 1, Jan-Feb. 1964, pp 3-4.
ACSI I-8487-A
2204050265

Problems of Hydrology in Central Asia, by N. T. Kuznetsov.
RUSSIAN, per, Izv. Akad. Nauk SSSR; Seriya Geograficheskaya, No 1, Jan-Feb. 1964, pp 5-13.
ACSI I-8487-B
2204050265

News of Institutions of Higher Learning. Aeronautical Engineering (Collection of Articles) 231 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Aviat Tekhnika, No 2, 1964, pp 1-163.
9699224-V
FTD-MT-64-318

Scientific
Engineering (Contd)

Refrigeration Engineering, Encyclopedic Manual, No 2 Refrigeration in Industry and Transport, by Sh. N. Kobulashvili.
RUSSIAN, bk, Kholodil'naya Tekhnika, Entsiklopedicheskiy Spravochnik, #2, Primeneniye Kholoda v Promyshlennosti i na Transporte, 1961, pp 5-37; 40-79; 115-139; 153-164; 201-203; 238-252; 306-308; 340-349; 365-368; 386-396; 555-564; 571-575, 1961.
*ACSI I-9484
ID 2204018166

Rapid Methods of Testing Antifouling Paints for Ocean-Going Ships, by V. N. Glotov, 11 pp.
RUSSIAN, per, Lakakrasochnye Material i ikh Primen, No 6, 1964, pp 53-56. 9699849
Dept of Navy/ONI Tr No 2059

Inter-University Scientific and Technical Conference on the Application of Geodesy in Construction, 6 pp.
RUSSIAN, rpt, Mezhvuzovskaya Nauch-Tekh Konferentsiya po Primeneniyu Geodezii v Stroitel'stve, 1965.
ACSI I-8636
ID 2204057165

Adjustment of Space Triangulation, by G. A. Ustinov, 12 pp.
RUSSIAN, per, Nablyudeniya Iskuss Sputnikov Zemli, No 2, 1963, pp 19-24.
9699649
FTD-TT-65-1190

Evaluation of the Effectiveness of the Explosion of Charges with Air Spaces, by F. A. Baum, 6 pp.
RUSSIAN, per, Nauchnotekhnicheskoye gornoye obshchestvo, vzryvnoye delo, Vol 54, No 11, 1964, pp. 43-52.
JPRS 34322

Origin and Growth of Cracks in Solids As Affected by Charge Design, by L. N. Marchenko, 11 pp.
RUSSIAN, per, Nauchno-tekhnicheskoye Gornoye Obshchestvo, Vzryvnoye Delo, Vol LIV, No 11, 1964, pp. 102-113.
JPRS 34323

Scientific
Engineering (Contd)

Seagoing Research Vessels of the Academy of Sciences USSR, by Ye. Suzyumov, 6 pp.
RUSSIAN, per, Nedelya, No 39, 19-25
Sept 1965, p. 22.
JPRS 34327

Computer Analysis of Hydrometeorological Information on Shipboard, by A. N. Shekhtman, 5 pp.
RUSSIAN, per, Okeanologiya, Vol V, No 6, Dec 1965, pp. 1110-1112.
JPRS 34177

Investigation of the Role of Free Radicals in the Acetaldehyde Polymerization Process in the Solid Phase Under γ -Irradiation, by V. S. Pshezetskiy, V. I. Tupikov, 13 pp.
RUSSIAN, per, Sbornik Statey Geterotsepnnye Vysokomole Soyed, 1963, pp 213-219.
9699227
FTD-TT-65-978

Polyester Glass Plastics for Shipbuilding, by I. M. Al'shits, 257 pp.
RUSSIAN, per, Sudostroyen, 1964. 9699222-V
Dept Navy/ONI Tr No 1036

Peculiarities of Creation of Heat-Resistant Frictional Materials, by G. A. Georgiyevskiy, 27 pp.
RUSSIAN, bk, Svoystva Friksionnykh Materialov, 1959, pp 93-109. 9698902
FTD-MT-64-483

Theory of Gyroscopic Devices, Pt II, Chapters 7-11, by S. S. Rivkin. 531 pp.
RUSSIAN, bk, Teoriya Girokopicheskikh Ustroystv, Chast' II, 1964, pp 1-548.
FTD-MI-65-96

Experimental Combustion Chamber With Water Cooling, by A. A. Mikulin, N. N. Zagryazkin, 15 pp.
RUSSIAN, per, Trudy Ak Nauk SSSR, Laboratoriya Dvigatelye, Vol V, 1960, pp 27-33. 9699645
FTD-TT-65-1282

Scientific
Engineering (Contd)

Gas-Turbine Rotor Temperature Field With Cooling Air Blown Through Slots in Root Attachments, by K. P. Seleznev, 16 pp.
RUSSIAN, per, Trudy Inst Politekh, No 228, 1963, pp 45-54. 9699628
FTD-TT-65-1321

Model Tests of Electrochemical Protection Against Corrosion of Ships Hulls and Determination of Effect of Propellers on the Conditions of Functioning of this Protection, by L. A. Suprun, 28 pp.
RUSSIAN, per, Trudy Tsentral Nauch Issled Inst Mekh Fiz, No 57, 1964, pp 3-25.
9699843
Dept of Navy/ONI Tr No 2063

Hydroacoustical Investigations in the Far East, by Yu. D. Podlipalin, V. A. Kalinin.
RUSSIAN, rpt, Uchenyye Zapoiski Gorokovskogo Universiteta, Vol LXIV.
*Dept of Navy/Oceanographic

Experiments With Gas Lasers, by N. I. Kaliteyevskiy, A. N. Razumovskiy, 14 pp.
RUSSIAN, per, Vest Lening Univ, Ser Fiz i Khim, No 10, 1964, pp 40-46. 9699653
FTD-TT-65-1060

Large-scale Landscape Mapping of Mountainous Areas (Southern Mt. Elbrus Region), by G. M. Ignat'yev and K. G. Tarasov, 7 p.
RUSSIAN, per, Vestnik Moskovskogo Universiteta, No 6, 1964, pp 55-61.
ACSI 1-8895
ID 2204065765

Heat Calculation of Equipment for Desalting Water by Freezing, by A. V. Izvekov, 8 pp.
RUSSIAN, per, Vodoanabzheniye i Sanitarnaya Tekhnika, No 11, Nov 1965, pp. 9-12.
JPRS 33927

Em Radiation of Industrial Explosion during the Blast.
RUSSIAN, per, Vzryvnoye Delo, No 52, 9, 1963, pp 201-210.
Dept of Navy Tr 4508/ONI Tr 2064

Scientific
Engineering (Contd)

Investigation of Efficiency of Charges with Air Gaps, by M. G. Novozhilov, 14 pp.
RUSSIAN, per, Nauchnotekhnicheskoye Gornoye Obshchestvo, Vzvnoye Delo, Vol LIV, No 11, 1964, pp. 113-125.
JPRS 34289

Determination of Ignition Conditions, by A. M. Grishin, O. M. Todes.
RUSSIAN, per, Zhur Priklad Mekh i Tekh Fiz, No 1, 1965, pp 68-75.
*Dept of Navy/APL/JHU -751

On the Calculation of a Pressure Rise on a Combustion Front, by N. N. Bakhman, 10 pp.
RUSSIAN, per, Zhur Prik Mekh i Tekh Fiz, No 1, 1965, pp 106-108. 9699624
FTD-TT-65-1771

Heat Transfer and Vertical Heat Conductivity of a Fluidized Bed of a Fine-Grained Material in a Packing, by A. P. Baskakov, et al.
BELORUSSIAN, rpt, All-Union Conf on Heat and Mass Transfer, II-E, May 5-9, 1964, Minsk, 9 pp.
*AEC
EDC May 15, 1966

Large Type for Hand-Setting of Chemical structural ring Formulas, by M. A. Kaplanyan,
RUSSIAN, pat, Author's Cert. No 146,743.
Dept of Comm
Patent Office

Process for Acetylene Production by Pyrolysis, Especially by Partial oxidation of Hydrocarbons, by Erwin Leirer,
AUSTRIAN, pat, Patent No 207,827.
Dept of Comm
Patent Office

Conference on Blasting-Short-Stake-Foundations and Shallow-Foundations, by T'ung Liang (0681 0081), 7 pp.
CHINESE, per, K'o-hsueh T'ung-pao, No 12, Dec 1965, p. 1126.
JPRS 34233

Scientific
Engineering (Contd)

Review of the Geological and Geophysical Institute in 3 series (A) Geology, (B) Engineering Geology, (C) Applied Geophysics. 640 p.
CROATIAN, bk, Vesnik Zavoda za Geoloska i Geofizicka Istrazivanja in 3 series, 1966.
*CFSTI TT 66-59004

Computation of the Thickness of Concrete Shielding Walls Against Gamma Radiation, by Arnost Hoenig.
CZECH, per, Inzenyske Stavby, Vol VII, 1964, pp 3-11. 9232027
AEC-ORNL-Tr-918

Manual on the Packing of Mechanical Engineering Products, by J. Ruzicka, A. Vrabec, 106 pp.
CZECH, bk, Prirucka Baleni Strojirenskych Vyrodku, 1962, pp 192-330.
ACSI I-8827
ID 2218034565

Analysis of the Monostable and Non-Stable Working Conditions of a Tunnel Diode, 11pp.
CZECH, per, Slaboproudy Obzor, No 2, 1963, pp 77-82.
ACSI I-9027
ID 2204068465

Acoustical yield in the Axis of Conical Diaphragm, Antonin Mlcak.
CZECH, per, Slaboproudy Obzor, No 8, 1964, pp 483-485.
ACSI I-9023
ID 2204068065

Automatic Recording of Fast Phenomena with Irregular Occurrence, by Milos Simek, 4 p.
CZECHOSLOVAKIA, per, Slaboproudy Obzor, No 8, 1965, pp 449-452.
*ACSI I-9425-A
ID 2204016966

Guide for Operation and Maintenance of Contamination Meter M/57, by E. Wissum, 20 pp.
DANISH, rpt, Vejledning i Betjening og Vedlegholdelse af Forureningsmaler, M/57, January 1960, Jaegersborg, 5-28 pp.
ACSI I-9350
ID 220415166

Scientific
Engineering (Contd)

Polyester Wheelhouses Add to the Stability of Small Ships - Practical Application of Molded Plastic in Ship Construction is on the Increase, by L. van den Ende, 11 pp. DUTCH, per, Nautica, May 1964, pp 240-243. 9699671
Dept of Navy/ONI Tr No 1069

Cartographic Terminology - Reviews, 13 p. ESTONIAN, per, Eesti Geograafia Aastaraamat, 1963, pp 217-229.
*ACSI I-9381
ID 2204016666

Board of Navigation Regulations for Classification of Ships into Various Ice Classes, 14 pp. FINNISH, per, 13 May 1960. 9699676
Dept of Navy/ONI Tr No 2028

Testing Ship-Hull Paints on Rafts, by B. W. Sparrow, 26 pp. FRENCH, rpt. 9699852
Dept of Navy/ONI Tr No 2105

Brief Description of the Basic Principles of the Bofors Remote Control System, by AB Bofors. 58 pp. FRENCH, rpt, AB Bofors, Dec 1953, Lombardsyde.
DIA LN 1-66 A

Measurement of the Mechanical Resistance of Glass after Reinforcement, by P. Acloque, J. Tochon, 21 pp. FRENCH, rpt, Article reprinted from a Paper Delivered at Symposium on the Mechanical Resistance of Glass at Florence, Sep 1961, 18 pp. 9699668
Dept of Navy/ONI Tr No 2065

Submarine Photography and Geology, by Louis Dangeard, Pierre Giresse. FRENCH, per, Cahiers Oceanographiques, Vol XVII, No 4, Apr 1965,
*AEC
EDC Mar 17, 1966

Scientific
Engineering (Contd)

Improved Steroscopic Film Apparatus, by Denys Charles and Gerald Shoppee, FRENCH, pat, Patent No 810,592.
Dept of Comm
Patent Office

Possibilities for the Application of Beryllium in Nuclear Engineering, Enclosure No V, by Julich Stocker, 7 pp. GERMAN, rpt, 1965, Germany.
DIA LN 308-65
ID 57420332-65

Possibilities for the Application of Beryllium in Nuclear Engineering, Enclosure, No III, by U. Rosler. 7 pp. GERMAN, rpt, 1965, Germany .
DIA LN 308-65
ID 5742033265

Investigations of Engine Inlets, by V. Trommsdorff. GERMAN, per, DVL-Bericht, Aug 1964.
Dept of Navy Tr 4481/APL/JHU T-1608

The Relative Effect of Isometric and Dynamic Training on Endurance during Dynamic Exertion, by K. Kogi. GERMAN, per, Internat'l Z fier Angewandte Physiologie, Einschliesslich Arbeitsphysiologie, No 20, 1965, pp 465-481. 9699694
Dept of Navy/ONI Tr No 2025

Relaxation in Complex Matrices, by W. Niethammer. GERMAN, per, Mathematische Zeitschrift, Vol LXXXVI, 1964, pp 34-40.
Dept of Navy Tr 4458/APL/JHU T-1582

Mespro-64, the Operating System for the Midas Integrated Computer Analog, by G. Kruger, G. Zipf. GERMAN, rpt, KFK-371, Oct 1965, Mespro-64 das Betriebssystem fur die Integrierte Computeranlage Midas.
*AEC ORNL-Tr-1131
EDC April 1, 1966

Scientific
Engineering (Contd)

Zero-Energy Measurements in the Core of the Multipurpose Research Reactor, by Ernst Behrens, Gottfried Bronner, et al. 18 pp.

GERMAN, per, Nukleonik, Vol VII, No 5, 1965, pp 221-231. 9231973
AEC ORNL-Tr-919

Thermal Engineering Design of a Pressurized Water Reactor With Special Consideration of a Possible Failure of the Main Circulating Pumps, by Ottomar Kampfenkel, Gerhard Ulrych, 9 pp.

GERMAN, per, Nukleonik, Vol VII, No 5, 1965, pp 236-241. 9231969
AEC ORNL-Tr-920

Experiences with a Boat made from Glass-Fiber Reinforced Polyester Reson -- during Construction and after Four Years of Operation, by J. Kulling, 9 pp.

GERMAN, per, Schiffbautechnik, Vol XV, No 5, 1965, pp 253-255. 9699678
Dept of Navy/ONI Tr No 2034

Suppression of Interferences from Motor Vehicles of the PTT, by E. Meister.
GERMAN, per, Technische Mitteilungen PTT, Vol XXXVIII, No 8, 1960, pp 271-277.
*Dept of Navy/APL/JHU J-764

Determination of a World Geodetic System, by W. Hopcke.

GERMAN, per, Zeitschrift fur Vermessungswesen, Special Edition, 1965, pp 24 32.
ACIC TC-983

Process for Spectroscopic examination by Means of an Electric Arc, by Herman Viertel,

GERMAN, pat, Patent No 235,185.
Dept of Comm
Patent Office

Oil Spray Lubricating System for Bearings, by Heinrich Emil Wencke,

GERMAN, pat, Patent No 455,504.
Dept of Comm
Patent Office

Scientific
Engineering (Contd)

Clamping Device for Aerial Cables.
GERMAN, pat, Patent No 603,149.
Dept of Comm
Patent Office

Single-part Steel Shapes for Mine Supporting Structures, Symmetrical to the Vertical Axis and Presenting a Web or Web-like Construction, by Wilhelm Esser,
GERMAN, pat, Patent No 627,925.
Dept of Comm
Patent Office

Structural Element for Wide-band Camouflage of Buildings Against Microwave Location and Process for Employing the Element, by Karl Stohr,
GERMAN, pat, Patent No 1,026,805.
Dept of Comm
Patent Office

Aluminum Cans for Perserved Food, by G. Barbieri, and S. Rosso, 2 p.
ITALIAN, per, Industria Conserve, Vol XL, 1965, pp 314-315.
*ACSI I-9304
ID 2204011966

Brochures on CM Fork Lift Elevator Trucks, by Brescia.
ITALIAN, rpt, Servizio Vendita Carelli.
*ACSI I-9533
ID 2204020166

Several Technical Causes of the Cost of Shipbuilding, by Franco Spinelli, 30pp.
ITALIAN, per, Tecnica Italiana, 1-2 Jan-Feb 1964, pp 21-34, Trieste.
DIA LN 280-65

Method for Elastically Tying Cured Meat Products and Elastic Netting Holder for the Application of Said Method,
ITALIAN, pat, Patent No 522,868.
Dept of Comm
Patent Office

Scientific
Engineering (Contd)

-Ray Shielding Property, Strength and Workmanship of a Built-up Type Lead Slab Structure, by Toshio Sakai.
JAPANESE, per, Hitachi Zosen Giha, Vol XXV, No 4, 1964, pp 24-32. 9232026
AEC-ORNL-Tr-843

Methods of Calculation of Selectivity Factor, by Witold Strzyzewski. 18 p.
POLISH, per, Prace Morskiego Instytutu Rybackiego w Gdyni, Vol 12 (B), 1964, pp 39-56.
*CFSTI TT 66-57061

Turbine Combustion Engines in Energetics, by J. Grzegorzewski, 5 pp.
POLISH, per, Przegląd Techniczny, No 52, 1964, pp 1 and 4. 9699031
FTD-TT-65-1175

Some Thoughts on Engineering Operations Within an Assault Group, by Wladyslaw Siemaszkiewicz, 9 pp.
POLISH, per, Przegląd Wojsk Lądowych, No 4, 1965.
DIA LN 282-65
ID 2878043165-V

The Shipbuilding Industry in the ALALC Countries, 13 pp.
PORTUGUESE, per, Portos e Navios, pp 38-41.
DIA LN 304-65

Course Ruler, by C. F. H. Westerberg and J. V. Holm,
SWEDISH, pat, Patent No 69,615.
Dept of Comm
Patent Office

Scientific
Fuels & Propulsion

Experiment in the Use of EI 893 Alloy for Gas-Turbine Blades, by L. B. Getsov, V. Ye. Shovkun, 10 pp.
RUSSIAN, per, Energomash, No 2, 1965, pp 30-32. 9699114
FTD-TT-65-1025

Ignition Condition for Non-Thermal Activation of a Fuel Mixture, by B. G. Khudenko.
RUSSIAN, per, Iz VUZ, Aviat Tekh, No 2, 1965, pp 121-131.
Dept of Navy 4524/APL/JHU T-1662

Bases of Burner Theory for Liquid Fuel With Gas Generator, by N. S. Lamekin, 9 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Mash, No 11, 1960, pp 103-107. 9698957
FTD-TT-65-1034

Absorption of Highly Soluble Gases by High Speed Axial Flow Atomizing Equipment, by V. I. Matrosov, et al.
RUSSIAN, per, Khim Mashinost, No 2, pp 46-52.
NASA TT F-9724

Insoluble Residues, Forming During the Heating of Jet Fuels, by G. F. Bol'shakov, 5 pp.
RUSSIAN, per, Khim i Tekh Topliv i Masel, No 5, 1963, pp 55-57. 9699090
FTD-TT-65-1064

The Role of Kinetic and Diffusional Factors in the Combustion of Fuels in Gas-Turbine Engines, by V. V. Nakarenkov, G. M. Panchenkov, 20 pp.
RUSSIAN, rpt, Ministerstvo Vyssh i Srednego Spetsial'nogo Obrazovaniya RSFSR "Neftekhimiya, Neftekhimicheskiye Protsessy i Neftepererabotka, 1964, pp 171-185. 9698959
FTD-TT-65-1015

Motor and Jet Oils and Fluids (Selected Chapters), by K. K. Papok, Ye. G. Semenido, 147 pp.
RUSSIAN, rpt, Motornyye i Reaktivnyye Masla i Zhidkosti, 1963, pp 123-139; 224-236; 391-398; 411-462; 544-552, and 673-691. 9699654-V
FTD-MT-64-382

Scientific
Fuels & Propulsion (Contd)

Gas-Chromatographic Analysis
of Mixtures of Hydrogen, Hydrogen
Deuteride, Deuterium and Orth-Para-
Hydrogen Mixtures, by F. Botter,
G. de la Perriere, et al. 28 pp.
FRENCH, rpt, C.E.A. Report No 1962, 1961.
9231970
AEC RFP Trans-8

Fuel Cells (Exhibition from 15 Dec 1965
to 15 Jan 1966 at the University of Paris),
FRENCH, per, Piles a Combustible, pp 1-61.
*JPRS/SF-4169

Experimental Study of the Combustion of
Ammonium Perchlorate Spheres in a Gaseous
Fuel Flow, by L. Nadaud
FRENCH, per, la Recherche Aerospatiale,
No 108, 1965, pp 39-51.
*Dept of Navy/APL/JHU J-773

Present State and Application of
the Industrial Gas Turbine
by M. Paul Chambadal. 30 pp.
FRENCH, per, Soc des Ingenieurs Civils
de France, Memories, Vol CXIV, No 3,
1961, pp 35-36.
ACSI I-8809
ID 2204063765

Nuclear Fuels and Fuel Elements,
by M. Becker, 16 pp.
GERMAN, per, die Atomwirtschaft, Aug, Sep
1964, pp 404-407.
Dept of Navy Tr 4514/ONI Tr 2099

The Reprocessing of Nuclear
Reactor Fuel by Aqueous-Fluoride
Volatility Methods, by Cleve
Richard Anderson, 10 pp.
GERMAN, Patent No 1,184,745; No 7,
Jan 1965. 9231968
AEC ANL-Trans-227

Scientific and Technical: Gas
Chromatograph. by Takeda Ichiro,
Nashiko Yoichiro.
JAPANESE, rpt, Feb 1965.
DIA 222205966

Scientific
Materials & Metallurgy

Physical Metallurgy of Titanium,
by I. I. Kornilov.
RUSSIAN, rpt, Moscow, 1964.
NASA TT F-338

Aging of Beryllium, by I. I. Papirova, 18 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 19, No
2, Aug 1965, pp. 144-153.
JPRS 34175

Change of the Properties of Beryllium during
Aging, by V. M. Azhazha, I. G. D'yakov,
I. I. Papirova, and G. G. Tikhinskiy, 6 pp.
RUSSIAN, per, Atomnaya Energiya, Vol 19, No
3, Sept 1965, pp. 269-272.
JPRS 34175

Investigation of the Metallurgical Processes
in the Electroslog Remelting of Steel, by Yu
V. Latash, 9 pp.
RUSSIAN, per, Avtomaticheskaya svarka, No 9,
Sept 1965, pp. 25-29.
JPRS 34485

Optimum Modes of Electroslog Welding to Pro-
vide Dimensional Precision of Products, by
I. I. Sushchuk-Slyusarenko and I. I. Lychko,
6 pp.
RUSSIAN, per, Avtomaticheskaya svarka, No 11,
Nov 1965, pp. 25-27.
JPRS 34485

Properties and Uses of Rhenium, by
K. B. Povarova, M. A. Tylkina, 7 pp.
RUSSIAN, per, Byull Tekh-Ekon Informatsii,
No 9, 1963, pp 7-11. 9698936
FTD-TT-65-976

The Synthesis of a Semi-Conducting
Combination of Materials by the Method of
Radiation of Gaseous Phase Infused
Polymerization, by A. V. Vlasov,
P. Ya. Glazunov, 6 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLVIII,
No 1, 1964, pp 141-142. 9698937
FTD-TT-65-1104

Scientific
Materials & Metallurgy (Contd)

Mechanism of the Polymorphic Transformation of Graphite into Diamond, by L. F. Vereshchagin, Ya. A. Kalashnikov, Ye. M. Peklichev, I. V. Nikol'skaya and L. M. Tikhomirova, 5 pp.
RUSSIAN, per, Doklady Akademii Nauk SSSR, Vol 162, No 5, 1965, pp. 1027-1029, Article 2.
JPRS 34373

Study of the Process of Fatigue Under Conditions of Rolling Friction by the Eddy-Current Method, by G. T. Nazarenko, A. D. Yaroshek.
RUSSIAN, per, Dopovidi Akad. Nauk UkrSR, No 3, Mar 1962, pp 370-373.
HB 5687

Electron-Beam Treatment as a Method of Work Hardening Steel Surfaces, by G. T. Nazarenko, G. Ya. Zagavura.
RUSSIAN, per, Dopovidi Akad. Nauk Ukrain'-koi RSR, No 1, Jan 1963, pp 59-61.
HB 5152

On the Possibility of Improving the Corrosion Fatigue Strength of Hardened Steel, by I. V. Karpenko, et al.
RUSSIAN, per, Dopovidi Akad. Nauk UkrSR, No 9, Sep 1965, pp 1179-1182.
HB 6801

On Electrolytic Methods of Extracting Carbides and Intermetallic Compounds From Steels and Alloys, by M. P. Braun, M. E. Natanson.
RUSSIAN, per, Dopovidi Akad. Nauk UkrSR, No 10, Oct 1965, pp 1342-1344.
HB 6798

Stabilization of Clay Suspensions Under the Action of Ultrasound--Effect of Electrolytes, by N. N. Kruglitskiy, et al.
RUSSIAN, per, Dopovidi Akad. Nauk UkrSR, No 10, Oct 1965, pp 1336-1339.
HB 6797

Technical and Economic Calculations in the Iron and Steel Industry, by N. P. Bannyi.
RUSSIAN, bk, Ekonomicheskie Raschety v Chernoi Metallurgii, Moscow, 1962, 385 pp.
*CFSTI
TT 66-51044

Scientific
Materials & Metallurgy (Contd)

Matrix Equations and Transmission Coefficients for Continuous Rolling Mill Systems, by N. N. Druzhinin.
RUSSIAN, per, Elektrichestvo, No 1, 1965, pp33-42.
BISI 4454

Effect of Electron-Beam Melting on the Properties of Ballbearing Steel ShKh15, by Yu. M. Yefimenko et al., 6 pp.
RUSSIAN, per, Fiziko-Khimicheskaya Mekhanika Materialov, Vol 1, No 4, Jul-Aug 1965, pp. 477-480.
JPRS 34181

Studies in Flotation, by I. A. Dolotova and Ye. P. Salishcheva, 65 pp.
RUSSIAN, bk, Flotator, 1965, pp. 3-4, 13-54, 56-58, 61-66, 85-88.
JPRS 34127

The Effect of Gases on the Quality of Titanium Alloy Castings, by E. Ye. Kukkonen.
RUSSIAN, per, Gazy v Litom Metalle, 1964, pp 150-153.
*ACSI I-9578
ID 2204020366

Mutual Displacement of Metals from the Vapours of Their Salts and the Utilization of This Process for Protection of Metals, by N. A. Izgaryshev.
RUSSIAN, per, Izv. Akad. Nauk. SSSR, No 6, 1941, pp 673-681.
BISI 4397

Reduction of Alkaline Earth Oxides with Aluminum Carbide, by A. S. Bornazyan.
RUSSIAN, per, Iz Ak Nauk Armyan Skoi SSR Khim Ches Kie, Vol XV, No 1, 1962, pp 25-32.
9231792
AEC-ORNL-Tr-683

Application of Photoelastic Coatings in the Investigation of Shells, by M. Kh. Akhmetzyanov.
RUSSIAN, per, Izv Akad Nauk SSSR Mekh, No 6, 1965, pp 84-86.
NASA TT F-9878

Scientific
Materials & Metallurgy (Contd)

Optical Phenomena in Photoelastic Coatings in the Investigation of Shells, by Kh. K. Aben.
RUSSIAN, per, Iz Akad Nauk SSSR Mekh, No 6, 1965, pp 86-87.
NASA TT F-9879

Titanium and Zirconium Carbide Coatings on Graphite, by A. L. Burykina, T. M. Yevlushok.
RUSSIAN, per, Izv Akad Nauk SSSR, Met i Gorn Delo, No 5, 1964, pp 147-149.
NASA TT F-9861

Mutual Solubility of Copper and Molybdenum and Certain Properties of Alloys of Molybdenum With Copper, by M. L. Baskin, A. V. Savin, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Metall i Toplivo, No 4, 1961, pp 111-114.
9698934
FTD-TT-65-1009

Recrystallization of High-Melting Metals in Welding and Soldering, by N. V. Grebtsev, G. N. Klebanov, 16 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Metall i Toplivo, No 5, 1961, pp 62-69.
9698946
FTD-TT-65-1010

Contact Interaction of Metal-Like Carbides, Nitrides and Borides With Refractory Metals at High Temperatures, by G. V. Samsonov, et al.
RUSSIAN, per, Iz Akad Nauk SSSR Otd Tekh Nauk Ser Met i Topl, No 5, 1962 pp 167-230.
NASA TT F-9713

Effect of Inoculants on the Viscosity of Liquid Steels, by N. S. Kreshchanovskiy, M. F. Sidorenko.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 9, 1963, pp 142-144.
HB 6819

Improved Final Deoxidation of 16-25-6 CrNiMo and AISI 4340 Type Steels, by V. S. Vvedenskiy, et al.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 5, May 1964, pp 40-45.
HB 6814

Scientific
Materials & Metallurgy (Contd)

Kinetics and Mechanism of Reduction of Manganese Oxides with Carbon - II, by A. K. Ashin, S. T. Rostovtsev.
RUSSIAN, per, Izv. VUZ Chern. Met, No 7, 1964, pp 10-18.
BISI 4339 Pt II.

The Fill of Non-Preheated Molds for Precision Casting, Using Investment Patterns, by G. M. Dubitskiy, L. A. Shcheglovitov.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 1, 1965, pp 136-142.
HB 6761

Heat Treatment of High Strength Steels With the Use of Electrical Heating, by Yu. G. Andreyev, Ye. K. Zakharov, 9 pp.
RUSSIAN, per, Iz Vyssh Ucheb Zaved, Chern Metall, No 3, 1965, pp 157-160.
9699642
FTD-TT-65-1472

Changes in Strength of Fluxed Sinters in Relation to Mineralogical Composition and Microstructure, by V. P. Kossova.
RUSSIAN, per, Izv. VUZ. Chern. Met, No 4, 1965, pp 59-64.
*BISI 4757

Diffusion of Carbon in Columbium and Titanium Carbides, by A. V. Shcherbedinskaya, A. N. Minkevich.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 4, 1965, pp 123-125.
HB 6736

On the Mechanism of Sinter-Mix Nodulization, by G. G. Efimenko, S. T. Voitanik.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 6, Jun 1965, pp 50-53.
HB 6595

Characteristics of the Charging and Heating Periods During Intensive Oxygen Lancing of the Open-Hearth Bath, by L. N. Efimov, et al.
RUSSIAN, per, Izvest. VUZ Chern. Met, No 7, Jul 1965, pp 28-31.
HB 6624

Scientific
Materials & Metallurgy (Contd)

The Production of Mechanically Capped Steel, by P. P. Navnyko.
RUSSIAN, per, Izvest. VUZ Chern. Met., No 10, Oct 1965, pp 49-51.
HB 6705

On Shock Waves in Metals, by L. P. Orlenko.
RUSSIAN, per, Iz VUZ, Fiz, No 4, 1964, pp 72-75.
*FTD-TT-65-873

Cathode Polarization on the Deposition of a Tin-Manganese Alloy From Halide Solutions, by A. V. Izmailov, N. P. Chernysheva.
RUSSIAN, per, Izv. VUZ Khim. i. Khim. Tekh., Vol 7, No 2, 1964, pp 269-273.
BISI 4552

Industrial Trials Relating to the Chlorination of Vanadium-bearing Converter Slag in Fused Salts, by S. A. Amirova, et al.
RUSSIAN, per, Izv. VUZ Tsvet. Met., No 2, 1965, pp 79-84.
BISI 4568

Statistical Analysis of the Directions of Preferential Growth in Molybdenum Single Crystals Obtained by Electron Beam, Levitation Zone Recrystallization, by A. I. Pekarev, Yu. D. Chistyakov and G. N. Shchirenko, 10 pp.
RUSSIAN, per, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 3, May-June 1965, pp. 65-72.
JPRS 34181

Heat of Formation of Lower Carbides of Vanadium, by N. M. Volkova, P. V. Geld.
RUSSIAN, per, Iz VUZ Tsvetnye Metallurgiya, No 3, Vol VIII, 1965, pp 77-81.
*AEC

Niobium Pentachloride Dissociation on Niobium and Carbide Surfaces, by V. P. Eliutin, et al.
RUSSIAN, per, Iz VUZ Tsvetnaya Metallurgiya, 1965, No 4, pp 90-96.
*AEC
EDC Mar 25, 1966

Scientific
Materials & Metallurgy (Contd)

The Use of Polyethylene in Rubber Compounds, by Ya. M. Bilalov, F. F. Koshelev, 8 pp.
RUSSIAN, per, Kauchuk i Rezina, No 2, 1965, pp 10-12. 9699632
FTD-TT-65-1229

Study of the Effect of Carbon-Black Structures on the Reinforcement of Rubber in Model Systems, by N. N. Lezhnev, B. Ya. Yampol'skiy, 11 pp.
RUSSIAN, per, Kauchuk i Rezina, No 2, 1965, pp 16-19. 9699632
FTD-TT-65-1229

Rubbers from Fluoro-Caoutchouc, by F. A. Galil-Ogly, N. S. Gilinskaya, 20pp.
RUSSIAN, per, Kauchuk i Rezina, No 3, 1965, pp 1-8.
ACSI I-7868
ID 2204039165

Corrosion- and Erosion Resistance of Slag Sitalls Exposed to Aggressive Agents, by L. P. Vladimirov, et al.
RUSSIAN, per, Khimicheskoe i Neftyanoe Mashinostroenie, No 7, 1965, pp 33-34.
BISI 4503

Determining the Elasticity of Saturated Vapors of Lubricating Materials, by V. M. Martynov, M. V. Morozova, 13 pp.
RUSSIAN, per, Khim i Tekh Toplivo i Masel, No 12, 1963, pp 62-65. 9699092
FTD-TT-65-1063

Plastics in Machine Building, by G. Pekarevich and E. Sork, 11 pp.
RUSSIAN, per, Kommunist Estonii, No 11, Nov 1965, pp. 33-40.
JPRS 34387

Protection of Steel and Light Alloys with Polyvinyl Butyral Phosphatizing Primers VL-023, by G. Ya. Terlo, 7 pp.
RUSSIAN, per, Lakokrasochnye Material i ikh Primen., No 5, 1964, pp 33-36. 9699846
Dept of Navy/ONI Tr No 2060

Scientific
Materials & Metallurgy (Contd)

Electrical Properties of Filon-type
Junction and Thin Layer Contacts of Cadmium
Telluride with Metals of the First, Third,
Fifth and Eighth Groups.
RUSSIAN, per, Litov Fiz Sbornik, 1964,
pp 495-507.
ACSI I-9427
ID 2204017466

Photoelectric Properties of Film-Type p-n
Junction of Cadmium Telluride.
RUSSIAN, per, Litov Fiz Sbornik, 1964, No 4,
pp 509-518.
ACSI I-9427
ID 2204017466

Photoelectric Properties of Thin Layer
Contacts of Cadmium Telluride with Metals.
RUSSIAN, per, Litov Fiz Sbornik, 1964, No 4,
pp 519-527.
ACSI I-9427
ID 2204017466

Surface-Active Properties and the
Washing Ability of the Solutions of
Various Synthetic Washing
Materials and of Detergents
Prepared from them, 4 pp.
RUSSIAN, per, Masloboyno-Zhirovaya
Promyshlennost, No 11, 1964, pp 26-29.
*ACSI I-9313
ID 2204012866

Titanium Carbide Coatings on Steel, by
G. A. Semenova, et al.
RUSSIAN, per, Metallovedenie I term. Obra.
Metallov, No 11, Nov 1965, pp 37-38.
HB 6688

Heat Resistance of Titanium Alloy
ATS During Short-Term Tests,
by Pul'tsin, Rumako, et al.
RUSSIAN, per, Metallovedeniya
Titana -- Trudy 5-go Soveshchaniya po Metallurgii,
Metallovedeniya i Primeneniyu Titana i
Yego Splavov, 1963, 1964, pp 240-242.
ACSI I-9259 A
ID 2204009566

Scientific
Materials & Metallurgy (Contd)

Dislocation Theory of the Hydrogen
Brittleness of Titanium Alloys,
by Kolachev, Livanov, et al. 8 pp.
RUSSIAN, per, Metallovedeniya Titana --
Trudy 5-go Soveshchaniya po Metallurgii,
Metallovedeniya i Primeneniyu Titana i
Yego Splavov 1963. 1964, pp 88-94.
ACSI I-9259 B
ID 2204009566

The Influence of Alloying on the
Physiochemical Properties of Titanium
by Kovtun, Ul'yanov. 16 pp.
RUSSIAN, per, Metallovedeniya Titana --
Trudy 5-go Soveshchaniya po Metallurgii,
Metallovedeniya i Primeneniyu Titana i
Yego Splavov, 1963. 1964, pp 95-108.
ACSI I-9259 c
ID 2204009566

Determining the Characteristics of
Mutual Diffusion of Titanium and
Molybdenum According to Gamma Radiation,
by Shinyayev, Akopyan, et al. 6 pp.
RUSSIAN, per, Metallovedeniya Titana --
Trudy 5-go Soveshchaniya po Metallurgii,
Metallovedeniya i Primeneniyu Titana i
Yego Splavov 1963. 1964, pp 109-114.
ACSI I-9259 D
ID 2204009566

Peculiarities of Cold Brittleness of
Titanium by Chechulian, Bodumova.
8 pp.
RUSSIAN, per, Metallovedeniya Titana --
Trudy 5-go Soveshchaniya po Metallurgii,
Metallovedeniya i Primeneniyu Titana i
Yego Splavov 1963. 1964, pp 196-203.
ACSI I-9259 E
ID 2204009566

Protecting Off-Shore Oil Industry Instal-
lations against Corrosion, by V. F. Negreyev.
RUSSIAN, bk, "Nedra" (Mineral Resources,
Moscow, 1964, 358 pp. 9699730-V
Dept of Navy/ONI Tr No 2076

A Study on the Production of Microcrystal-
line Material of Mica-like Structure,
by C. G. Tresvyatskiy.
RUSSIAN, per, Neorgan Material, Vol I, No 4,
1965, pp 449-459. 9231784
AEC-ORNL-Tr-845

Scientific
Materials & Metallurgy (Contd)

Preparation and Use of Niobium Carbide Articles, by O. P. Kolchin, I. K. Berlin.
RUSSIAN, per, Poroshkovaya Met, No 4, (28), 1965, pp 25-34.
NASA TT F-9723

Study of the Compactibility of Metal Powders in Rolling, by V. P. Katashinskiy, G. A. Sinogradov.
RUSSIAN, per, Poroshkovaya Metallurgiya, No 5, May 1965, pp 9-16.
HB 6570

Measurement of Abrasive Wear Resistance of Refractory Metal Carbide and Boride Powders, by V. V. Stasovskaya.
RUSSIAN, per, Poroshkovaya Metallurgiya, No 11, Nov 1965, pp 52-54.
HB 6812

Methods of Preparing and Etching Microsections of Metal-Graphite Powder Compositions, by L. I. Pugina, A. G. Yurchenko.
RUSSIAN, per, Poroshkovaya Metallurgiya, No 11 (35), Nov 1965, pp 83-86.
HB 6813

Structural Imperfections of Metals During Recrystallization, by S. Z. Bokshstein, S. T. Kishkin, 12 pp.
RUSSIAN, per, Sbornik Statey Protsessy Diffuzii, Struktura i Svoystva Metallov, 1964, pp 99-109. 9699093
FTD-TT-65-1090

The Experience of Moscow "Serp i Molot" Metallurgical Plant in the Organization of Contract Relationships, by G. B. Bychkovskiy, 9 pp.
RUSSIAN, per, Sovetskoye Gosudarstvo i Pravo, No 10, Oct 1965, pp. 86-91.
JPRS 34336

Polarographic Determination of Acrolein in the Oxidation Products of Propylene on Copper Catalysts, by V. P. Latyshev, N. I. Popova, 6 pp.
RUSSIAN, rpt, Teoriya i Praktika Polyarograficheskogo Analiza, 1962, pp 406-408. 9699405
FTD-TT-65-446

Scientific
Materials & Metallurgy (Contd)

Electrochemistry of Molten and Solid Electrolytes, Thermodynamics and Kinetics of Electrode Processes, by A. N. Baraboshchkin, C. F. Pal'guev.
RUSSIAN, per, Trudy, Inst. Elektrokhim, Institute of Electrochemistry, No 7, Vol IV, 1965.
*CB

Investigation of the Process of Catalyzed Crystallization by the Method of Combination Light Diffusion Spectra, by Ya. S. Bobovich, 8 pp.
RUSSIAN, per, Trudy Inst Khimii Silikatov, Ak Nauk SSSR, Vol III, No 1, 1963, pp 87-90. 9699418
FTD-TT-65-689

Studying the Effect of Additions to Polycaprolactam "B" on Antifriction Properties and Adhesion to Metal, by D. S. Makhmudov, A. N. Levin, 11 pp.
RUSSIAN, per, Trudy Inst Khim Mashin, Vol XXVII, 1964, pp 194-200. 9699072
FTD-TT-65-986

Scientific
Materials & Metallurgy (Contd)

Deactivation and Activation of
Impurities in Silicon, by K. D. Glinchuk
N. M. Litovchenko.
RUSSIAN, per, Ukr Fiz Zh, Vol X, 1965,
pp 172-177.
*NASA TT F-9891

Refining of Yttrium in Vacuum, by V. E. Ivanov.
RUSSIAN, per, Ukrains Fiz Zhur, Vol X, 1965,
pp 543-548. 9231756
AEC-IS-Tr-21

Air Cushion Vehicles, by Ye. I. Ruzhitskiy,
137 pp.
RUSSIAN, bk, Vozdushnyye Vezdekhody,
1964, 177 pp.
ACSI I-8689
ID 2901021664

Scientific
Materials & Metallurgy (Contd)

Studying Vulcanization of Fluoro-
Copolymers With Polyamines by Infrared
Spectroscopy Method, by A. S. Novikov,
F. A. Galil-Ogly, 11 pp.
RUSSIAN, per, Vysokmol Soyed, Vol IV,
No 12, 1962, pp 1799-1804. 9699626
FTD-TT-65-1371

Determination of Nitrogen and Boron by
Activation Analysis With Fast Neutrons, by
I. I. Naumova.
RUSSIAN, per, Zavodskaya Laboratoriya,
Vol 31, No 10, 1965, pp 1205-1207.
HB 6758

Czechoslovakian Tektite Field, by
G. G. Vorob'yev.
RUSSIAN, per, Zemlya i Vselennaya,
Vol I, No 6, 1965, pp 67-71.
*NASA TT F-9897

Structure of Various Modifications of Pyro-
lithic Carbon, by A. S. Fialkov, A. I. Bayer,
B. N. Smirnov, M. I. Chaykun, N. M. Sidorov,
S. M. Rabinovich, and I. M. Yurkovskiy, 6 pp.
RUSSIAN, per, Zhurnal Strukturnoy Khimii, Vol
6, No 1, Jan-Feb 1965, pp. 66-69, Article 1.
JPRS 34373

Production Process for Foam Plastics,
by V. D. Valgin, V. N. Demin, 6 pp.
RUSSIAN, per, Patent No 167033, 1963.
9699056
FTD-TT-65-1247

Utilization of the Heat of Hot Alumina, by
A. P. Baskakov.
RUSSIAN, Patent 147,579, June 6, 1962.
Applied March 18, 1961.
*AEC
EDC April 15, 1966

Band of the Boundary of Fatigue With
Other Mechanical Properties on Metal,
by A. Bukh, 10 pp.
BULGARIAN, per, Mashinostroene, No 4,
1964, pp 20-23. 9699094
FTD-TT-65-1045

Scientific
Materials & Metallurgy (Contd)

The Texture and Magnetostriction of Nickel, by Chang Hsin-yu (1728 0207 6877), Ch'en Yu-lien (7115 3558 1670) and Tai Ji-chih (2071 4409 2535), 7 pp.
CHINESE, per, Chin-Shu Hsueh-pao, Vol VIII, No 1, Jan 1965, pp. 93-96.
JPRS 34332

A Study of the Interaction of Dislocations with Precipitates in Nickel-Base High Temperature Alloys, by Ch'en Ch'ih (7115 4609), Ting Shu-shen (0002 2885 3234) and Wang Hsiu wen (3769 1485 2429), 12 pp.
CHINESE, per, Chin-shu Hsueh-pao, Vol VIII, No 2, Apr 1964, pp. 232-236 and 284-285.
JPRS 34332

Almanac of Mining Industry and Metallurgy. Croatian, bk., Rudarsko-Metallurski Zbornik. 1966, 350 p.
*CFSTI TT 66-59003

The Temperature Dependence of the Magnetic Properties in Alloyed Soft Magnetic Materials, by Zd. Svestka, Zd. Tischer.
CZECH, per, Slaboroduy Obzor, No 3, 1965, pp 173-176.
ACSI I-8853D
ID 2204064565

TNO Packaging Institute: Combined Tests, by H. J. Lelie, 1 p.
DUTCH, per, TNO Nieuws, No 12, 1965, pp 960.
*ACSI I-9420
ID 2204016866

Something More About Concrete, by H. Martin.
FRENCH, per, L'Armee, No 49, Jun-Jul 1965, pp 48-53.
*ACSI I-9483-B
ID 2204018066

Stability of Tritium Metal Compounds Used as Targets on Fast Neutron Generators, by G. Breynat, M. Dubus, et al.
FRENCH, per, Bulletin d'Informations Scientifiques et Techniques, Vol XCVIII, 1965, pp 81-92.
*AEC 2352

Scientific
Materials & Metallurgy(Contd)

Study of U-Pu-Fe Alloys, (Masurca Critical Experiment, by Pierre Barthelemy, Rene Boucher. 25 pp.
FRENCH, rpt, Centre d'Etudes Nucleaire de Fontenay - Aux - Roses, CEA Report-R 2792, July 1965. 9231982
AEC ANL-Trans 224

Examination by Electron Microscope of Niobium Contaminated at High Temperature by Interstitial Elements, by Herve Bibring.
FRENCH, rpt, Communication presented to the Journees d'Automne de la Societe Francaise de Metallurgie, Paris, Oct 1964. 9231779
AEC-ANL-Tr-218

On the Dilatometric Behaviour of Pure Iron, by P. Lehr.
FRENCH, per, Comptes Rendus, Jan 1956, pp 632-635.
*BISI 4748

On the Existence of a Plastic Deformation in Iron in the Course of the Transformation, by P. Lehr.
FRENCH, per, Comptes Rendus, Feb 27, 1956, pp 1172-1175.
*BISI 4747

Cupola Operation, Chemical Aspects, Carburization, Melting Losses, by M. Decrop.
FRENCH, per, Fonderie, No 233, Jul 1965, pp 240-245.
HB 6770

Refractory Products Manufactured in an Electric Furnace, by A. M. Alper.
FRENCH, per, J. Four Elec., Aug-Sep 1964, pp 233-234.
BISI 4327

Micro-analysis by X-ray Emission in an Electron Microscope, by F. Giraud-Heraud.
FRENCH, per, Journal de Microscopie, Vol 4, No 5, 1965, pp 587-594.
*BISI 4765

Scientific
Materials & Metallurgy (Contd)

Study of the Introduction and Diffusion of Rare Gases in Metals, by Y. Adda, G. Brebec, et al.
FRENCH, per, Memoirs Scientifiques Rev. Metallurge, Vol 58, No 10, 1961, pp 743-756. 9230628
NSTIC Tr. 1661

Influence of Pressure on the Stabilization of Plutonium in the Delta Phase by Gallium, by G. Roux, P. Le Roux, et al.
FRENCH, per, Mem. Sci. R. de Met., Vol LXII, Sept 1965, pp 691-692.
AEC BNWL-Tr-12

Preparing Steel before Painting, by J. F. Stanner, 18 pp.
FRENCH, rpt, Mise en Etat de l'Acier Avant Peinturage. 9699847
Dept of Navy/ONI Tr No 2106

The French Packaging Industries, FRENCH, per, Notes et Etudes Documentaires, No 3196, 31 May 1965.
ACSI I-9432
ID 2204017266

Study of the Transformation of Austenite During Tempering, by A. H. Michel.
FRENCH, per, Rev. Met., Vol 51, No 6, 1954, pp 425-439.
*BISI 4767

The Continuous Casting of Steel. Pt II, by G. Namy.
FRENCH, per, Revue de Metallurgie, Vol 61, No 9, 1964, pp 775-780.
HB 6416-II

Critical Study of Ultrasonic Testing of Plate: apparatus and Operating Procedures, by L. Beaujard, J. Mondot.
FRENCH, per, Revue de Metallurgie, Vol 62, No 1, 1965, pp 49-57.
HB 6514

Present Position of Automatic Inspection of [Steel] Billets by Ultrasonics in France, by V. Husarek.
FRENCH, per, Revue de Metallurgie, Vol 62, No 7/8, 1965, pp 711-719.
HB 6652

Scientific
Materials & Metallurgy (Contd)

Forgeability, by P. Blain.
FRENCH, per, Rev. Met., Vol 62, Oct 1965, pp 881-890.
*BISI 4746

Evaporation by Electron Bombardment of High Melting Point Metals, by M. Aubecq.
FRENCH, per, Rev. Met. Mem. Sci., Vol 62, May 1965, pp 373-378
BISI 4591

Process for Preserving the Premeability of Fabrics Assembled by Bonding,
FRENCH, pat, Patent No 761,429.
Dept of Comm
Patent Office

The Equilibria Between Pig Iron Melts and Lime-Silica-alumina Slags During the Process of Carbon Reaction, by W. Oelsen.
GERMAN, per, Arch. Eisenh., Vol 35, Nov. 1962, pp 1039-1057.
*BISI 4768

The Constitution and Properties and Variations Thereof With Time of Heat-Resistant Nickel-Chromium and Cobalt-Nickel-Chromium Alloys, by W. Jellinghaus.
GERMAN, per, Arch. Eisenh., Vol 35, Aug 1964, pp 781-800.
BISI 4587

Investigation of the Decomposition of Martensite in the First Stage of Tempering by Measuring the Elasticity Modulus and Damping at High Frequencies, by E. Schmidtman, et al.
GERMAN, per, Arch. Eisenh., Vol 36, Mar 1965, pp 191-200.
BISI 4461

Investigation of the Nitrides Appearing in Ternary Iron Alloys and Their Chemical Properties, by W. Koch, K. H. Sauer.
GERMAN, per, Arch. Eisenh., Vol 36, Aug 1965, pp 591-596.
BISI 4496

Scientific
Materials & Metallurgy (Contd)

Direct Electrochemical Determination of the Oxygen Concentration in Liquid Iron. Pt II: 'Effect of Phosphorus, Sulfur, and Carbon upon the Activity of the Oxygen Dissolved in Liquid Iron', by W. A. Fischer, W. Ackermann.
GERMAN, per, Archiv f.d. Eisenhüttenwesen, Vol 36, No 10, 1965, pp 695-699.
HB 6518

The Carburisation of Plain Carbon and Chromium-bearing Steels in Hydrogen-Benzene Vapour Mixtures, by K. Bungardt, et al.
GERMAN, per, Arch. Eisenh., Vol 36, Oct 1965, pp 709-724.
*BISI 4749

Decarburization of Plain Carbon and Chromium Alloyed Steels in Hydrogen-Water Mixtures, by K. Bungardt, et al.
GERMAN, per, Arch. Eisenh., Vol 36, Nov 1965, pp 809-816.
*BISI 4755

Direct Electrochemical Determination of Oxygen Content of Liquid Metals - Studies on Liquid Iron, Cobalt, Nickel and Copper, by W. A. Fischer, et al.
GERMAN, per, Arch. Eisenh., vol 37, No 1, 1966, pp 43-48.
*HB 6830

Refuse Disposal in Medium Sized Incineration Furnaces, by K. Wuhrman.
GERMAN, per, Aufbereitungs-Technik, May 1965, pp 262-270.
*BISI 4762

Considerations on Refuse Incineration, by R. Bopp.
GERMAN, per, Aufbereitungs-Technik, May 1965, pp 271-278.
*BISI 4763

The Torsion Strength of Fired and Chemically Bonded Basic Refractories at High Temperatures, by M. Koltermann, et al.
GERMAN, per, Berichte der Deutschen Keramischen Gesellschaft, Vol 41, No 11, 1964, pp 632-638.
BISI 4471

Scientific
Materials & Metallurgy (Contd)

Slag Cements in Chemically Corroding Waters, by H. G. Smolezyk.
GERMAN, per, Ber. Deut. Keram. Rundschau, Vol 89, No 7-8, 1965, pp 159-165.
*BISI 4758

New Protective and Decorative Coatings for Sheetls, by E. Meckelburg.
GERMAN, per, Blech, No 12, Jan 1965, pp 6-11.
BISI 4555

Progression of Temperature at the Centre and at the Chamber Wall of a Coke Oven, by F. Trefny.
GERMAN, per, Brennstoff-Chemie, Vol 43, Aug 1962, pp 251-252.
BISI 4544

The Direct-hardening of Case-hardening Steels, by K. Bungardt, et al.
GERMAN, per, DEW Technische Berichte, Vol 5, No 1, 1965, pp 1-12.
*BISI 4754

On the Representation of Small-Angle Grain Boundaries of Considerable Dislocation Density on the Surface Plane of NaCl Crystals, by V. Schmidt, H. Bethge, 5 pp.
GERMAN, rpt, Electron Microscopy, 1964: Proceedings of the Third European Regional Conference on Electron Microscopy, Held in Prague in Aug. 26-Sept. 3, 1964, pp 263-264.
Dept of Navy
Navy Tr No 4494/NRL 1046

Alternating Tensile and Torsional Loads on A.P.I. Tool Joints by V. Hauk, et al.
GERMAN, per, Erdöl und Kohle, Vol 18, Jul 1965, pp 514-523.
*BISI 4760

Gas Nitriding and Bath Nitriding of Various Steels, by O. Felgel-Farnholz, H. Sidan.
GERMAN, per, Galvanotechnik, Vol 55, No 12, 26 Mar 1964, pp 17-23 & 29.
BISI 4595

Scientific
Materials & Metallurgy (Contd)

Studies on the Behaviour of Williams
Units as Feeding Funnel for Steel
Castings, by H. U. Doliwa.
GERMAN, per, Giesserei, Vol 44, Feb.
1957, pp 129-133.
*HB 6823

Determination and Calculation of Risers
by A. Holzmueller.
GERMAN, per, Giesserei, Vol 47, Sep 1960,
pp 497-501.
*HB 6822

Investigations into Feeder Techniques With
Cast Risers, I & II, by A. Holzmueller.
GERMAN, per, Giesserei, Vol 49, 1962,
No I, 17 May, pp 265-275; 31 May, pp 296-306.
No II.
*HB 6811

The Gyrotory Ladle, A New Desulfurizing and
Carburizing Tool [for Liquid Iron], by
J. Kobel, E. H. K. Muller.
GERMAN, per, Die Giesserei, vol 62, No 15,
Jul 1965, pp 457-461.
HB 6692

Thermal Efficiency of Risers and Effect
of Yield, by W. Patterson.
GERMAN, per, Giess. Techn. Wiss., No 28,
Apr 1960, pp 1523-1533.
*HB 6810

Planning in Shipbuilding with the Use
of Electronic Data Processing Equip-
ment, by F. Sandmann,
GERMAN, per, Hansa, Vol CI, No 22,
Nov, 1964.
Dept of Comm
Maritime Administration

The Becker Single-Blade Finned Rudder,
by H. Hinze,
GERMAN, per, Hansa, No 16, Aug 1965.
Dept of Comm
Maritime Administration

Scientific
Materials & Metallurgy (Contd)

Corrosion Protection, Modern Paints
and Preservation on the Fast Freighters
WESTFALIA and HAMMONIA, 1 p.
GERMAN, per, Hansa, No 18, Oct 1965,
pp 1726.
Dept of Comm
Maritime Administration

Effect of the Structure on the Radial Co-
efficient of Coupling of Lead Titanate
Zirconate Ceramics, by W. Fischer,
H. J. Gesemann.
GERMAN, per, Hermesdorfer Technische Mittei-
lungen, No 11, 1964, pp 304-307. 9232013
AEC-SC-T-65-0774

Pelletizing: A Successful Agglomeration
Process for Iron Ores, by G. von Struve.
GERMAN, per, Kleppzig Fachberichte, No 11,
1963, pp 587-594.
*BISI 4764

Effect of Hard Chromium Plating on the
Fatigue Strength of [High and Low] Alloy
Steels and Gray Cast Iron, by H. Weigand,
H. R. Kaiser.
GERMAN, per, Metalloberfläche, Vol 19,
No 1, 1965, pp 1-8.
HB 6476

The Energy Balance in Steady and Pulse-
Modulated Argon High Temperature Arcs, by
W. Neumann.
GERMAN, per, Monatsber. Deutschen Akad.
Wissen., Berlin, Vol 3, Nos 5-6, 1961,
pp 260-263.
BISI 4567

Surface Properties of Metal Powders, by
J. Uhlmann.
GERMAN, per, Monatsberichte d. Deutschen
Akademie d. Wissenschaften zu Berlin,
Vol 6, No 3, 1964, pp 220-224.
HB 6809

Nondestructive Methods for the Detection of
Delta Ferrite in Austenitic Steels, by
K. Spiegelberg, E. Haupt.
GERMAN, per, Neue Hütte, Vol 10, No 8,
Aug 1965, pp 480-484.
HB 6756

Scientific
Materials & Metallurgy (Contd)

Use of Vacuum Steel in the Manufacture of Forgings in the Lenin Works at Pilsen, by J. Zlatnikova, et al.
GERMAN, per, Neue Hutte, Vol 10, Nov. 1965, pp 649-658.
*BISI 4771

Determination of Hydrogen in Unalloyed and Alloyed Steels by Vacuum Annealing Extraction, by J. Eisenkolb, et al.
GERMAN, per, Neue Hutte, Vol 10, Dec 1965, pp 745-751.
*BISI 4756

New Melting Practice Using Oil-oxygen Burners, by M. Wahlster, et al.
GERMAN, per, Rheinstahl-Technik, Vol 3, No 3, 1965, pp 251-264.
*BISI 4751

Differences Between Mechanical Properties of Continuously Cast and Hot Worked Steel, by H. Siepmann, et al.
GERMAN, per, Rheinstahl-Technik, Vol 3, No 3, pp 279-285, 1965.
*BISI 4752

Welded Pipe Joint With Internal Insulation, by V. Hauk, et al.
GERMAN, per, Rohre - Rohrleitungsbau - Rohrleitungstransport, Vol 4, 3 Aug 1965.
*BISI 4761

The Behaviour of Austenitic Steels and Welded Connections Between 700-1200°C, by S. Sadowski.
GERMAN; FRENCH, per, Schweiss Technik Soudure, Vol 55, 10 Sep 1965, pp 311-324.
*BISI 4745

Experiments on Hot Saws and Hot-saw Blades, by K. Hausler.
GERMAN, per, Stahl Eisen, Vol 56, 23 Apr 1936, pp 490-492.
BISI 4499

The Production of High Duty Forgings in Austria, by R. Standl, et al.
GERMAN, per, Stahl Eisen, Vol 84, 21 May 1964, pp 667-673.
*BISI 4769

Scientific
Materials & Metallurgy (Contd)

Ultrasonic Wall Thickness Gaging of Boiler Tubes, by H. Thier.
GERMAN, per, Stahl und Eisen, Vol 85, No 4, 1965, pp 198-202.
HB 6460

Properties and Production Process of Steel-plant Ingot Molds of Spheroidal Graphite Cast Iron. Pt. I of 'Experience with Ingot Molds of Spheroidal-Graphite Cast Iron, by F. Klepp.
GERMAN, per, Stahl und Eisen, Vol 85, No 16, Aug 1965, pp 977-981.
HB 6658

Investigations of the Solidification of Rimming Steel, by P. Nilles, F. Becker.
GERMAN, per, Stahl und Eisen, Vol 85, No 17, pp 1025-1032.
HB 6648

Investigation of Scaffold Formation in the Blast Furnace Stack, by H. Diemers, et al.
GERMAN, per, Stahl und Eisen, Vol 85, No 20, 1965, pp 1240-1247.
HB 6681

Present State and Development Trends of Maintenance Work in Steel Works, by H. Nies.
GERMAN, per, Stahl Eisen, Vol 85, 4 Nov 1965, pp 1431-1440.
*BISI 4750

Determination of Aluminum and its States of Combination in Plain Carbon Steels, by A. Neuberger.
GERMAN, per, Stahl und Eisen, Vol 85, No 22, 1965, pp 1446-1451.
HB 6788

The System Hydrochloric Acid-Iron (II) Chloride-Water and the Behaviour of Hot-rolled Steel Strip Pickled in These Solutions, by B. Neuthen, et al.
GERMAN, per, Stahl Eisen, Vol 85, 30 Dec, 1965, pp 1722-1729.
*BISI 4766

Scientific
Materials & Metallurgy (Contd)

Comparative Study of Performance of Various Kinds of Pellets and Sinters in the Blast Furnace, by H. Pohl, et al.
GERMAN, per, Stahl Eisen, Vol 86, Jan 1966, pp 65-76.
*HB 6827

Hydrogen Contents of Liquid Steel From the Arc Furnace When Using Lump Lime, Fine HMrd-Burned and Fine Soft-burned Lime, by F. Keller, et al.
GERMAN, per, Stahl Eisen, Vol 86, Jan 1966, pp 77-81.
*HB 6828

Effect of Carbon in Tar-bonded Burnt Magnesite Brick on Wear Resistance in Basic Oxygen Furnace Linings, by H. Barthel.
GERMAN, per, Stahl Eisen, Vol 86, Jan 1966, pp 81-88.
*HB 6829

Dry Electrostatic Precipitation for Cleaning Cupola Gases, by H. Schnitzler.
GERMAN, per, Staub, Vol 24, No 6, 1964, pp 201-205.
BISI 4611

The Influence of Temperature and Moisture on the Electrical Conductivity of High Insulating Dusts, by S. Masuda.
GERMAN, per, Staub, Vol 25, May 1965, pp 175-179.
*BISI 4759

New Developments in Wet Cleaning of Waste Gases from Oxygen Steelworks, by K. Baum.
GERMAN, per, Staub, Vol 25, Oct 1965, pp 385-390.
*BISI 4770

Application of Shell-toroidal Burners in a 3-Ton crucible for the Purpose of Preheating or Melting Scrap, by K. Borowski, et al.
GERMAN, per, Techn. Mitt. Krupp, Vol 22, Dec 1964, pp 143-147.
*BISI 4753.

Scientific
Materials & Metallurgy(Contd)

Relationship Between the Stress-Rupture and Creep Characteristics of High-strength Heat-Treated Steels, by W. Janiche.
GERMAN, per, Techn. Mitt. Krupp, Forsch, Ber., Vol 23, Nov 1965, pp 157-178.
*BISI 4744

Artificial Fiber Foils-tested the Modern Way, by H. Rodenhauser.
GERMAN, per, Verpackungs Rundschau, 1965, pp 1573-1576.
*ACSI I-9315
ID 2204013066

The Properties of Lubricants and Expulsion Media in Hot Pressing and Drop Forging, by R. Handler.
GERMAN, per, Werkstattstechnik, Vol 54, No 2, 1964, pp 93-95.
HB 6755

Corrosive Behaviour of Zinc and Zinc Coatings When Exposed to the Atmosphere, by G. Schikorr.
GERMAN, per, Werks. Korros., Vol 15, Jul 1964, pp 537-543.
BISI 4588

The Oxidation of Cadmium and Cadmium-Alloy Melts, by Wolfgang Gruhl, Gunter Wassermann.
GERMAN, per, Z Metall., Vol XLI, 1950, pp 178-179, 183-184.
*AEC IS Trans-24
EDC Mar 8, 1966

Development of a Precipitate-Bearing Corrosion-Resistant Ni-Cr-Mo-Alloy, by Immanuel Class, H. Grafen.
GERMAN, per, Zeit Metall., Vol LIII, 1962, pp 283-293.
*AEC ORNL-Tr-1114
EDC Mar 16, 1966

Further Growth of Plastically Deformed NaCl Crystals, by Z. Gyulai, 15 pp.
GERMAN, per, Z fur Physik, Vol CLXXVI, 1963, pp 370-379.
Dept of Navy 4543/NRL Tr 1048

Scientific
Materials & Metallurgy (Contd)

Innovation in Reversible Gang Flows,
by F. W. Unterilp,
GERMAN, pat, Patent No 49,222.
Dept of Comm
Patent Office

Process for Workup of Tantalum, Advan-
tageously From Scrap, to Tantalum Powder,
GERMAN, pat, Patent No 1,196,376.
Dept of Comm
Patent Office

140" Plate Mill and Auxiliaries, by
R. Bazuro.
ITALIAN, per, Boll. Tec. FINSIDER, No 217,
Mar 1965, pp 281-294.
BISI 4534

Automatic Control of the Plate Mill, by
L. A. Oliva.
ITALIAN, per, Boll. Tec. FINSIDER, No 217,
Mar 1965, pp 295-303.
BISI 4533

How Much Ni-Mg Alloy is Necessary to
Spheroidize Cast Iron? by G. Barchiesi.
ITALIAN, per, Fonderia, Vol 14, Oct 1965,
pp 385-386.
BISI 4662

Studies on the Factors Affecting the Workability
(Fluidity) of Resins used for the Injection Molding
of Ceramics, I, by Asao Moteki.
JAPANESE, per, J Ceram Assoc Japan, Vol LXVII,
No 12, 1959, pp 387-399. 9231925
AEC-SC-T-65-768

A Study on Various Factors in the Heating Treat-
ment of the Injection Molded Ceramic Articles
Studies on the Injection Molding of Ceramics, II,
by Asao Moteki.
JAPANESE, per, J Ceram Assoc, Vol LXVIII, No 1,
1960, pp 11-21. 9231887
AEC-SC-T-65-0771

Properties of High Alumina Porcelain Produced
by Injection Molding Studies of the Injection Molding
of Ceramics, III, by Asao Moteki.
JAPANESE, per, J. Ceram Assoc Japan, Vol LXXX,
No 3, 1960, pp 23-32. 9231888
AEC-SC-T-65-0770

Scientific
Materials & Metallurgy (Contd)

Solvent Extraction of Beryllium, Copper,
Nickel, Cobalt and Zinc as Dibenzoylmethane
Complexes, by Tsunenobu Shigematsu.
JAPANESE, per, Nippon Kagaku Zasshi,
Vol LXXXIV, 1963, pp 131-134. 9231783
AEC-ORNL-Tr-940

Relation Between Moisture Content and
Preheating Temperature of the Coal
Charge and the Quality of the Coke, by
H. Joh, et al.
JAPANESE, per, Tetsu to Hagane, Vol 50,
1964, pp 1592-1594.
*BISI 4772

Properties of Alloy Steels Produced in a
Basic Oxygen [LD] Furnace. Pt III of 'The
Production of Alloy Steels in a Basic
Oxygen Furnace' by K. Kawakami, H. Nozaki.
JAPANESE, per, Tetsu to Hagane, Vol 50,
No 11, 1964, pp 1718-1720.
HB 6721

Production of High-Grade Killed Steels in
Basic Oxygen LD Furnace. Pt IV of 'The
Production of Alloy Steels in Basic Oxygen
Furnace' by Y. Nishio, K. Saito, et al.
JAPANESE, per, Tetsu to Hagane, Vol 50,
No 11, 1964, pp 1720-1723.
HB6734

Effect of Die Geometry on Metal Flow in
the Hot Extrusion of Metals, by
K. Okamoto, S. Nakamura.
JAPANESE, per, Tetsu to Hagane, Vol 50,
No 12, 1964, pp 2044-2046.
HB 6725

Elimination of Nitrogen From Low-Carbon
Steel by an Aluminum Diffusion Treatment,
by T. Ando, E. Shuto.
JAPANESE, per, Tetsu to Hagane, Vol 50,
No 12, 1964, pp 2088-2091.
HB 6723

Changes to Blowing Conditions in Single-
Hole Oxygen Lance Nozzle Operation, Pt. I
of 'Study of Lance Nozzles in Basic Oxygen
LD Furnace', by S. Hoyashi, S. Ono, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51,
No 4, 1965, pp 717-720.
HB 6768

Scientific
Materials & Metallurgy (Contd)

Improvement of Refractories and Basic Oxygen LD Plant Operation at Kukioka (Japan), by H. Ohba, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 725-727.
HB 6741

On the Rate of Deoxidation [of Steel] by Silicon. Pt II of 'Kinetic Researches on Deoxidation of Steel', by T. Kawawa, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 774-777.
HB 6764

Effect of Rimming Action on Large Slag Inclusions in the Bottom Zone of Rimmed-Steel Ingots, by K. Kitagawa, Y. Itoh.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 807-810.
HB 6696

Behavior of Dislocations in the [Steel] Matrix Around Small Nonmetallic Inclusions. Pt IV of 'Deformation of Nonmetallic Inclusions in Steel During Rolling', by I. Uchiyama, M. Sumita.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 813-816.
HB 6694

Preliminary Experiments on Rate of Solidification and the Formation of Sulfide Inclusions in Resulfurized Steels. Pt. 1 of 'Investigation into the Structure of Steel Ingots', by H. Hirai, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 816-819.
HB 6695

On the Quality of Continuous-Cast Stainless Steel Slabs, by T. Ota, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 4, 1965, pp 873-876.
HB 6699

Effect of Oxygen, Sulfur, Selenium and Tellurium on the Solubility of Nitrogen in Liquid Iron, by T. Fuwa, Sh. Ban-ya.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 10, 1965, pp 1834-1837.
HB 6711

Scientific
Materials & Metallurgy (Contd)

On the Quality of 18-8 Stainless Steel Wire Rod from Continuous-Cast Billets, by T. Ota, et al.
JAPANESE, per, Tetsu to Hagane, Vol 51, No 11, 1965, pp 2101-2103.
HB 6722

Synthesis and Zone melting of Gallium Arsenide, by A. Gajda.
POLISH, per, Archiwum Elektrotechniki, No 11, 1962, pp 384-387.
*ACSI I-9245 C
ID 2204009366

Effect of the Pouring Sequence on the Structure of Rimmed-Steel Ingots, by V. Parma.
POLISH, per, Hutnik (Prague), Vol 25, No 6, 1965, pp 232-233.
HB 6603

Adsorption of Ions From Aqueous Solutions on Metal and Oxide Surfaces, by E. Herczynska.
POLISH, rpt, Inst of Nuclear Energie, 1965, Warsaw, 116 pp.
*AEC JILA NBS

Statistical Evaluation of the Optimum Size of Flat Tensile Specimens of Ductile Metals, by Z. Hisiolok.
POLISH, per, Prace Instytutu Hutnictwa, Vol XV, No 2, 1963, pp 73-82.
*ACSI I-9306
ID 2204012266

Mechanism and Rate of the Reactions in the Basic Oxygen Process. Pt. I, by K. Mamro, T. Mazanek.
POLISH, per, Prace Rady Naukowo-Techn. Między Lenina (Poland), No 16, Feb 1965, pp 9-18.
HB 6702

Ceramic Tunnel Diode Encapsulation, by Jerzy Michalowiec.
POLISH, per, Prace Inst. Elektroniki, No 7, 1964, pp 335-336.
*ACSI I-9511 A
ID 2204019066

Scientific
Materials & Metallurgy (Contd)

Evaporated Hall Generators of Mercury-Telluride HN13 and HN14, by Andrzej Kobus. POLISH, per, Przegląd Elektroniki, No 12, 1964, pp 632-638.
*ACSI I-9507 A
ID 2204018666

New Developments in the Field of Perminvar Ferrites and their Applications, by L. Stanciulea. POLISH, per, Przegląd Elektroniki, No 12, 1964, pp 639-645.
*ACSI I-9507 B
ID 2204018666

External Corrosion of Tinplate Containers, by O. J. Simoni. SPANISH, per, Industria y Quimica, Vol 21, No 4, 1961, pp 245-247.
BISI 4435

Sound-Absorbing insulation element for Ceilings and Walls, SWISS, pat, Patent No 206,380.
Dept of Comm
Patent Office

Effect of Receiving Surface Dimensions on the Basic Characteristics of Metallic Vacuum Bolometers, by L. M. Artyukhovs'ka, L. S. Kremenchugs'kiy, 11 pp. UKRAINIAN, per, Ukrayins'kyi Fiz Zhur, Vol IX, No 11, 1964, pp 1240-1247.
9699612
FTD-TT-65-922

Deactivation and Activation of Impurities in Silicon, by Glinchuk, Litovchenko, 7 pp. UKRAINIAN, per, Ukrainskiy Fiz Zhur, Vol X, No 2, 1965, pp 172-177.
ACSI I-9371
ID 2204018666

Scientific
Mathematics & Data Processing

A Block Method for Solving a System of Linear Equations of Large Dimensionality, by B. A. Shchennikov, 8 pp. RUSSIAN, per, Ekonomika i matematicheskiye metody, Vol 1, Nov-Dec 1965, pp. 911-915.
JPRS 34154

New Approximating Polynomials for Processing Measurement Results, by A. S. Nemirovskiy, S. A. Ivankov. RUSSIAN, per, Izmeritel Tekh, No 7, 1965, pp 1-6.
*Dept of Navy/APL/JHU J-765

Topological Properties of Sets in Connection with the Theory of Approximation of Functions, by Yu. A. Shashkin. RUSSIAN, per, Iz Ak Nauk SSSR, Ser Matemat, Vol XXIX, No 5, 1965, pp 1085-1094.
*Dept of Navy/APL/JHU J-759

On the Possible Form of a General Solution to Equilibrium Equations in Curvilinear Coordinates, by V. N. Ionov, G. A. Vvedenskiy, 10 pp. RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matemat, No 6, 1964, pp 59-66. 9698950
FTD-TT-65-931

Cavitational Flow Past a Flat Plate, by A. G. Terent'yev, 11 pp. RUSSIAN, per, Iz Vyssh Ucheb Zaved, Matemat, No 6, 1964, pp 159-167. 9698950
FTD-TT-65-931

On Error Equations of an Inertial Navigation System Which Determines Arbitrary Curvilinear Coordinates of a Moving Object, by V. D. Andreyev. RUSSIAN, per, Iz Ak Nauk SSSR Matemat, No 4, 1965, pp 108-116.
*Dept of Navy JHU APL No J-738

Stability of the Solutions of Linear Difference Equations and Multi-Point Difference Boundary-Value Problems, by A. I. Teptin. RUSSIAN, per, Iz VUZ, Matemat, No 4, 1965, pp 140-146.
*Dept of Navy JHU/APL No J-737.

Scientific
Mathematics & Data Processing (Contd)

On the Gurevich Theorem, by
A. V. Zarelua.
RUSSIAN, per, Matemat Sb, Vol LX(102),
No 1, 1963, pp 17-27.
*NASA TT F-421

Certain Integral Inequalities and the
Solvability of Degenerating Quasilinear
Elliptic Systems of Differential Equations,
by Yu. A. Dubinskiy, 28 pp.
RUSSIAN, per, Matemat Sbornik, Vol LXIV,
No 3, 1964, pp 458-480. 9699597
FTD-TT-65-1808

On the Equivalence of Certain Linear Opera-
tors in an Analytic Space, by K. M. Fishman.
RUSSIAN, per, Matemat Sbornik, Vol LXVIII,
No 1, 1965, pp 63-74.
*Dept of Navy JHU/APL No J-735

Application of the Method of Semigroups
to the Study of the Boundedness of Solutions
of a Linear Partial Equation, by
by E. Ya. Melamud.
RUSSIAN, per, Matemat Sbornik, Vol LXVIII,
No 2, 1965, pp 228-241.
*Dept of Navy JHU/APL No J-756

Realization of Machine Algorithm for the
Detection in Text of Object Names, by
G. S. Tabidze, 15 pp.
RUSSIAN, per, Nauch-Tekh Informat,
No 8, 1964, pp 47-50. 9699657
FTD-TT-65-1083

Reference Information Repositories of All-
Union and Branch Information Centers, by N.
I. Tyshkevich, 7 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 3-5.
JPRS 34159

Role of Scientific and Technical Libraries
in Information Activity, by Ye. N. Morozova,
7 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 7-9.
JPRS 34159

Scientific
Mathematics & Data Processing (Contd)

Certain questions of the Organization of the
Patent Repository of an Enterprise, by V. E.
Al'bert, 5 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 11-12.
JPRS 34159

Experience in Constructing an Information
Retrieval System of the Descriptor Type on
Superposition Punched Cards, by F. V.
Bazilevich and L. L. Orlinov, 18 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 22-27.
JPRS 34159

Set of Equipment for Documentary Information-
Retrieval Systems on Superposition Punched
Cards, by A. I. Chernyy and I. I. Chernyy,
10 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 28-31.
JPRS 34159

Problem of Centralized Classification, by E. R.
Sukiasyan, 11 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 32-35.
JPRS 34159

An Enumeration, Generating Nuclear Russian
Sentences, by M. V. Lomkovskaya, 10 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 37-40.
JPRS 34159

Certain Characteristics of Distribution of
Symbols of Russian Alphabet, by K. I. Kurbakov,
13 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 41-46.
JPRS 34159

Thermocopying, Electronic Copying and Electro-
graphic Apparatuses at the "Inforga-65"
Exhibition (A Review of Exhibits of the
"Inforga-65" Exhibition, Held from 15 May to
30 June 1965 in Moscow), by G. G. Zlotnikov,
20 pp.
RUSSIAN, per, Nauchno-Tekhnicheskaya Infor-
matsiya, No 9, 1965, pp. 47-54.
JPRS 34159

Scientific
Mathematics & Data Processing (Contd)

General Description of the Soviet Space
Coordination Computer Center, by Am. Tri-
fonov, 7 pp.
RUSSIAN, np, Pravda, 3 Jan 1966, p. 4.
JPRS 34222

On the Approximation of Functions, by P. L.
Ul'yanov.
RUSSIAN, per, Sibirsk Mat Zhur, Vol V, No 2,
1964, pp 418-437.
Dept of Navy Tr 4483/APL/JHU T-1612

On Eigenvectors of Completely Continuous Linear
Operators Defined in Partially Ordered Non-
Normed Spaces, by V. M. Brodskiy.
RUSSIAN, per, Sibirsk Mat Zhur, Vol V, No 2,
1964, pp 479-471.
Dept of Navy Tr 4482/APL/JHU T-1611

Correctness of a Problem with Initial Data
for one Partial Differential Equation,
by G. V. Demidov.
RUSSIAN, per, Sibirsk Mat Zhur, Vol VI,
No 5, 1965, pp 985-996.
*Dept of Navy/APL/JHU J-767

Synthesis of Digital Automata, by
V. M. Glushkov, 469 pp.
RUSSIAN, bk, Sintez Tsifrovyykh Avtomatov,
Moscow, 1962, pp 1-476. 9699837-V
FTD-MT-64-206

On the Impossibility of Certain Inequalities
Between Functional Norms, by K. K. Golovkin.
RUSSIAN, per, Trudy Matematicheskoy Institut
imeni V. A. Steklova, Vol LXX, 1964, pp 5-25.
Dept of Navy Tr 4455/APL/JHU T-1579

On the Approximation of Functions in
Arbitrary Norms, by K. K. Golovkin.
RUSSIAN, per, Trudy Matematicheskoy Institut
imeni V. A. Steklova, Vol LXX, 1964,
pp 26-37.
Dept of Navy Tr 4485/APL/JHU T-1614

Algorithm for Calculating Eigenvalues of
Positive-Definite Matrices,
by V. N. Kublanovskaya.
RUSSIAN, per, Trudy Matematicheskoy Institut
imeni V. A. Steklova, Vol LXXXIV, 1965, pp 5-7.
*Dept of Navy JHU/APL No J-747

Scientific
Mathematics & Data Processing (Contd)

Example of the Application of the Galerkin
Method to a Boundary-Layer Problem,
by A. P. Kubanskaya.
RUSSIAN, per, Trudy Matematicheskoy Institut
imeni V. A. Steklova, Vol LXXXIV, 1965, pp 60-67.
*Dept of Navy JHU/APL J-748

Description of Continuations of a Positive-
Definite Operator Function,
by M. L. Gorbachuk.
RUSSIAN, per, Ukrainsk Matemat Zhur, Vol XVII,
No 5, 1965, pp 102-110.
*Dept of Navy/APL/JHU J-766

Solution of Ordinary Linear Differential Equations
by Numerical Integration Operators,
by A. V. Nesterchuk.
RUSSIAN, per, Ukrainsk Matemat Zhur, Vol XVII,
No 4, 1965, pp 112-119.
*Dept of Navy JHU/APL No J-746

The Automation of the Sorting, and the Coding
of the Letter Mail, 5 pp.
RUSSIAN, per, Vestnik Svyazi, No 12, Vol XXV,
1965
JPRS 34263

Algorithms of an Operator's Actions in Emer-
gency Situations, by B. M. Yankelevich, 9 pp.
RUSSIAN, per, Voprosy Psikhologii, No 6,
Nov-Dec 1965, pp. 119-125.
JPRS 34200

On a New Method of Numerical Solution of
Stationary Problems of Gasdynamics with two
Space Variables, by V. F. D'yachenko.
RUSSIAN, per, Zhur Vychisl Mat i Mat Fiz,
Vol V, No 4, 1965, pp 670-688.
*Dept of Navy JHU/APL No J-733

Random Iteration Process II.,
by Yu. V. Vorob'yev.
RUSSIAN, per, Zhur Vychisl Mat i Mat Fiz,
Vol V, No 5, 1965, pp 787-795.
*Dept of Navy/APL/JHU J-760

A Method of Calculating Eigenvalues
of Matrices, by A. Ya. Povzner.
RUSSIAN, per, Zhur Vychisl Mat i Mat Fiz,
Vol V, No 5, 1965, pp 903-907.
*Dept of Navy JHU/APL No J-755

Scientific
Mathematics & Data Processing (Contd)

A Memory Element, by V. I. Sulkhanov.
RUSSIAN, Patent No 170747.
*FTD-TT-66-98.

Some Investigations in Mathematical
Logic, by Mo Shao K'uei, 51 pp.
CHINESE, per, Shu Hsueh Hsueh Pao
(Acta Mathematica Sinica), Vol XIII,
No 4, 1963, pp 485-507. 9699049
FTD-TT-64-829

National Chebyshev Approximation, Eigen-
Value Theory and Calculus of Differences,
by Helmut Werner.
GERMAN, per, Arch Ration Mech Anal,
Vol XIII, 1963, pp 330-341. 9231787
AEC-ANL-Tr-238

Solution of the Transport Equation by
Means of the Monte Carlo Method,
by Ulrich Moeller.
GERMAN, rpt, Institute of Neutron Physics
and Reactor Engineering KFK 297, Feb 1965.
AEC-ORNL-Tr-875 9232012

A Numerical Method for the Eigenvalue
Problem, by Togawa Hayato, 16 pp.
JAPANESE, bk, Apr 1963. 9699696
Dept of Navy/ONI Tr No 2015

Solution of the Equation of Vertical
Flight of a Rocket by the Graphic-Mathematical
Method, by P. Becerril.
SPANISH, rpt, Solucion de la Ecuacion
de Vuelo Vertical de un Cohete
pro El Metodo "Grafico-Matematico",
1965.
NASA TT F-9834

Scientific
Nuclear Sciences & Technology

Particle Losses in Accelerators and So
Storage Rings due to Crossing of Non-
Linear Resonances, by A. A. Kolomenskii. 5pp
RUSSIAN, per, Atomnaya Energiya,
Vol XVIII, pp 636, 1965. 9231977
AEC NP-Tr 1322

On Alpha and Beta Radiation Method for
Determining Concentration of Short-Lived
Radon Daughter Products in Air, by
by V. G. Labushkin.
RUSSIAN, per, Atom Energ, Vol XIX, No 1, Jul
1965, pp 24-28.
*Dept of Navy/NRL

The Limit Cross Section of the Radiation
Beam From an Optical Quantum Generator,
by N. G. Basov, E. N. Belenov, 5 pp.
RUSSIAN, per, Dok Ak Nauk SSSR, Vol CLXI,
No 4, 1965, pp 799-801. 9699818
FTD-TT-65-1003

Isotopic Exchange of Oxygen On Silver Films,
by G. K. Boreskov, et al.
RUSSIAN, per, Dokl Akad Nauk SSSR,
Vol CLXIV, No 3, 1965, pp 606-609.
NASA TT F-9856

Effective Cross Sections of Collisions of
Electrons With Atoms.
RUSSIAN, rpt, Effektivnye Secheniya
Stolknoveniy Elektronov s Atomami,
Atomnye Stolknoveniya, Vol III,
1965, pp 3-32.
*AEC JILA

A Magnetohydrodynamic Theory--The Pinch
Effect in the High Temperature Dense
Plasma, by V. S. Imshennik,
RUSSIAN, bk, Gosudarstvenii Komitet po
Ispol'zovaniyu Atomnoi Energii,
Institut Atomnoi Energii im I. V. Kurchatova,
pp 2-9. (IAE-960).
*AEC
EDC April 5, 1966

Gamma Activation Analysis of Rock and
Ore Composition, by A. K. Bersin, K.
K. F. Martynov, et al.
RUSSIAN rpt, IAEA Symposium on Radioisotopic
Equipment in Industry and Geophysics.
*AEC ORNL-Tr-1097

Scientific
Nuclear Sciences & Technology (Contd)

Bore-hole Pulsed Neutron Generator and
its use in Nuclear Geophysics, by
F. A. Alekseev, D. F. Bespalov, et al.
RUSSIAN, rpt, Impul'snyi Skvazhinnyi
Generator Neitronov i ego Primenenie v
Radernoi Geofizike, SM-68/60.
*AEC ORNL-Tr-1098

On the Effect of H₂ Excitation on the
Cross Section for the Ion-Molecular
Reaction H₂ + H₂ → H₃ + H.
by N. N. Tumitskiy, G. E. Spezhakova.
RUSSIAN, per, Kinetika i Kataliz, Vol IV,
No 3, p 563, May 1965.
*AEC
EDC Mar 2, 1966

Plasma Equilibrium in a Toroidal Chamber
With a Traveling Magnetic Field,
by T. F. Volkov.
RUSSIAN, per, Nuclear Fusion, Vol V,
No 4, 1965, pp 272-275.
*AEC

An Injector of Fast Hydrogen Atoms,
by L. I. Artmenkov.
RUSSIAN, rpt, Paper Presented at the VII
International Conference on Ionization
Phenomena in Gases, Belgrade, 1965. 9231924
UCRL Tr-1262

Kinetic Energy of Fragments and Energy
Balance During the Fission of U²³⁵
by Thermal Neutrons, by V. F. Apalin,
Yu. N. Gritsyuk, et al. 8 pp.
RUSSIAN, rpt, State Committee on
the Use of Atomic Energy USSR Institute
of Atomic Energy im. I. V. Kurchatov,
Moscow, 1964. 9231983
AEC-Tr-6588

Theoretical Studies in Nuclear Geophysics
in the USSR.
RUSSIAN, rpt, Teoreticheskie Issledovaniya
v Oblasti Yadernoi Geofiziki v SSSR,
SM-68/59.
*AEC ORNL-Tr-1096

Photon Reaction Engine, by Ye. S. Fridenson,
14 pp.
RUSSIAN, per, Vest Prot Oborony, No 9,
1964, pp 67-71. 9699599
FTD-TT-65-1815

Scientific
Nuclear Sciences & Technology (Contd)

A Study of Radiation Oxidation of Poly-
Caproamide, by A. I. Brodskiy.
RUSSIAN, per, Vysokomolekuliarnye Soedinia,
Vol VII, 1965, pp 116-122. 9231928
UCRL Tr-1274

Electromagnetic Radiation Produced in the
Detonation of Industrial Explosives,
by V. N. Zenin, 27 pp.
RUSSIAN, bk, Vzryvnoye Delo, No 52, 9,
1963, pp 115-129. 9699700-V
Dept of Navy/ONI Tr No 2064-a

Visual Observation of Infrared
Laser Radiation, by I. S. Vasilenko.
RUSSIAN, per, Zh Eksper i Teor Fiz,
Vol XLVIII, No 3, 1965, pp 777-778.
*NASA TT F-9888

Bulletin of the Boris Kidric Institute of
Nuclear Sciences. 250 p.
CROATIAN, rpt, Institut za Nuklearne Nauke.
Bulletin, 1966.
*CFSTI
AEC-tr-6646

Sorption of Radioactive Isotopes on
Precipitates. VII. Sorption of
Strontium on Manganese (IV) Hydroxide,
by Z. Kolarik, 8 pp.
CZECH, per, Collection Czech Chem
Commun, Vol XXVII, 1962, pp 951-958.
9231975
AEC ORNL-Tr-878

Cosmic Dust: Recent Research at the
French Atomic Energy Commission,
by T. Grjebine.
FRENCH, per, Bull Inform Sci Tech
Comm Energ Atomique, No 85, 1965,
pp 1-15.
NASA TT F-9576

Calculation of the Technological Parameters of
Radiation Chemistry Apparatus,
by Mojmir Seliga.
FRENCH, per, Jaderna Energie, Vol XI, No 7,
1965, pp 263-267. 9232001
AEC-BNL-Tr-56

Scientific
Nuclear Sciences & Technology (Contd)

On Some Experimental Estimates of
Electrical Polarizability Coefficients of
Nucleons, by Yu. A. Aleksandrov, G. S. Samosvat.
FRENCH, rpt, Joint Institute for Nuclear
Research, Dubna, 1965, JINR-P-2495. 23 pp.

*AEC

EDC May 15, 1966

Nature of the Transformation of
Uranium Near Equilibrium, by G. Donze,
6 pp.

FRENCH, per, Journal of Nuclear
Materials, Vol V, No 1, 1962,
pp 150-152. 9231978

AEC MLM-1302-

Kinetic Theory of Weakly Ionized Homogeneous
Plasma, Part III, the Collision Operator in
the Case of an Imperfect Lorentz Gas,
Michel Bayet.

FRENCH, per, le Journal de Physique et le
Radium, Vol XVII, Nov 1956, pp 923-930.

9232029

AEC-SC-T-65-775

Kinetic Theory of Weakly Ionized Homogeneous
Plasma, Part IV, Study of the Evolution of
the Isotropic Part of the Distribution
Function, by Michel Bayet.

FRENCH, per, le Journal de Physique et le
Radium, Vol LVII, Dec 1956, pp 1005-1009.

9232030

AEC-SC-T-65-776

Duoplasmatron-type Annular Ion Source,
by R. Becherer.

FRENCH, per, Nuclear Instruments and
Methods, Vol XXXV, 1965, pp 229-234.

9232015

UCRL Tr 1309(L)

A Review of Micro-Wave Techniques in Plasma
Studies, by Consoli, Terenzio.

FRENCH, rpt, Rapport Commissariat a
L'Energie Atomique, France No CEA -R-2427,
78 p. Oct 1964, Excerpts From: p 1-9; 22-26.

*AEC

EDC Mar 31, 1966

Drive for Reactivity Control Rods of
Nuclear Reactors,

FRENCH, pat, Patent No 1,191,408.

Dept of Comm
Patent Office

Scientific
Nuclear Sciences & Technology (Contd)

Reactor Development and Atomic Power Plants,
by H. Kuhne, 24 pp.

GERMAN, per, die Atomwirtschaft, Aug, Sep
1964, pp 365-372. 9699851

Dept of Navy/ONI Tr No 2098

Determination of Fast Neutron Spectra in
Iron With Threshold Detectors, by
Karlheinz Fahrmann.

GERMAN, rpt, Bestimmung Schneller
Neutronenspektren in Eisen Mittels
Schwellwertdetektoren, ZRK-RN-27,
June 1964.

*AEC ORNL-Tr-1002

EDC Feb 28, 1966

The Extension of Some Experimental
Results of Cosmic Rays Physics to
Nuclear Physics, by K. Pinkau.

GERMAN, per, Fortschritte der Physik,
Vol XII, 1964, pp 139-234.

*AEC ORNL-Tr-1118

EDC Mar 16, 1966

Neutron Polarization in the Reaction $D(d, n)^3He$
at Low Deuteron Energies, by H. Hansgen.

GERMAN, per, Nuclear Physics, Vol LXXIII,
1965, pp 417-423. 9232020

AEC-ANL-Tr-265

Determination of the Stable Reactor
Period in the Presence of a Neutron Source,
by T. Hurlimann, P. Schmid.

GERMAN, per, Nukleonik, Vol V, No 6,
1963, pp 236-239.

*AEC

EDC April 15, 1966

Time Variation of Reactivity of a
Reactor Controlled With the Temperature
of the Moderator, by Roman Palinski, 11pp.

GERMAN, per, Nukleonik, Vol VII,
No 5, 1965, pp 241-247. 9231972

AEC ORNL-Tr-921

Diffusion and Isotope Effect of Na^{22}
and Na^{24} in Silver Chloride, by

P. Suptitz.

GERMAN, per, Physica Status Solidi,
Vol XII, 1965, pp 555-567.

*AEC 2350

Scientific
Nuclear Sciences & Technology (Contd)

25 Years of Nuclear Fission Methods and Results of Chemical Studies. 2. Methods, by G. Herrmann.
GERMAN, per, Radiochimica Acta Vol IV, No 4, 1965, pp 173-188.
*AEC 2355

Interaction of Nuclear Forces in Heavy Nuclei, by H. Euler.
GERMAN, per, Zeit Physik, Vol CV, 1937, pp 553-575.
*AEC ORNL-Tr-1102
EDC Mar 10, 1966

Radiating Power of Jagged Surfaces, Survey of the Radiating Systems With Finned Tubes, by Yu. G. Zhulev. Yu. A. Vasanov.
GREEK, rpt, Paper Presented at the XVI International Astronautical Congress in Athens, Greece.
Dec 1965, 9231994
AEC AI Trans 204

Measurements of Dose Build-up Factors of Iron Slabs for a Line Isotropic Source, by Iwao Umeda.
JAPANESE, per, Nippon Genshiryohu Gakkaiishi, Vol VII, No 9, 1965, pp 480-484.
*AEC ORNL-Tr-1133
EDC April 1, 1966

Calorimetric Study on Ionizing Radiation (2) on the Energy Flux of Cesium-137 Gamma-ray Beam, by T. Takaku, et al.
JAPANESE, per, Nippon Igaku Hoshanen Gakkai Zasshi, Vol XXI, Nov 25, 1961, pp 801-805.
*AEC
EDC May 1, 1966

Calorimetric Measurements of Ionizing Radiation (3) On the Energy Flux in Cobalt-60 Gamma Ray Beams, by Y. Takaku, K. Kawashima, et al.
JAPANESE, per, Nippon Igaku Hoshanen Gakkai Zasshi, Vol XXI, Jul 25, 1962, pp 316-319.
*AEC
EDC May 1, 1966

Scientific
Nuclear Sciences & Technology (Contd)

Report on an Investigation of the Present Utilisation of Radioisotope Devices, JAPANESE, per, Radioisotopes, Vol XIV, No 3, 1965, pp 255-267.
*AEC 2346

Study of Atomic Defects in Cold-Worked Copper by Means of its Electrical Resistance, by F. Ramsteiner.
POLISH, per, Physica Statys Solidi, Vol VII, 1964, pp 937-952. 9231892
UCRL-Tr-1295

Work Plans for Swedish Atomic Energy Technology, by SH1 8 pp.
SWEDISH, per, Teknisk Tidskrift, No 38, pp 1047-1049 b.
DIA LN 4-66b

Physics

The Possibilities of Using X-Rays to Study Fruits, by E. I. Slepym, A. N. Kishkovskiy.
RUSSIAN, per, Botnaicheskii Zhur Vol XLV, No 9, 1960, pp 1309-1310.
*CFSTI TT 66-51102

A Method for Mass Interspecific and Intergeneric Grafting of Conifers in Field Conditions, by E. P. Prokazin.
RUSSIAN, per, Botanicheskii Zhurnal, Vol XLVII, No 7, 1962, pp 987-990.
*CFSTI TT 66-51102

Shock Wave "without collisions" in a Test of Linear Striction, by Jean'Louis Bobin.
FRENCH, per, comptes Rendus des Seances de l'Academie des Sciences, Vol CCLVI, No 13, 25 Mar 1963, pp 2801-2804.
*Dept of Navy/NRL

Amplification of the Flux in an Inhomogeneous Layer with Non-Linearity Taken into Account, by Yu. I. Chekalinskaya.
RUSSIAN, per, Dok Ak Nauk Belorussk SSR, Vol IX, No 10, 1965, pp 659-663.
*Dept of Navy/APL/JHU J-771

Scientific
Physics (Contd)

Optical Properties of a Light-Scattering Layer with a Negative Absorption Coefficient, by E. P. Zege.

RUSSIAN, per, Dok Ak Nauk Belorussk SSR, Vol IX, No 10, 1965, pp 664-667.
Dept of Navy 4530/APL/JHU T-1685

The Calculation of Anomalies V_{xz} of Three-Dimensional Bodies with a Palette of a Two-Dimensional Body, by Ya. A. Yum'kov.
RUSSIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 10, 1960, pp 1224-1226.
Dept of Navy Tr 4541/NOO Tr 283

The Calculations of the Anomalies of V , for Three-Dimensional Bodies by a Palette of a Two-Dimensional Body, by A. A. Yum'kov.
RUSSIAN, per, Dopovidi Ak Nauk Ukrain RSR, No 10, 1960, pp 1393-1395.
Dept of Navy Tr 4540/NOO Tr 282

Determination of the Optimum Dimensions of Radiating Fins, by O. Yu. Kovosel'skiy, V. L. Ukolov, 9 pp.
RUSSIAN, per, Inzhen-Fiz Zhur, No 12, 1964, pp 54-59. 9698958
FTD-TT-65-1032

Critical Resistance and Critical Velocity of the Fluidization of a Fine-Grained Material in a Conical Apparatus, by A. P. Baskakov, L. G. Gal'perin.
RUSSIAN, per, Inzhen-Fiz Zhur, Vol IX, No 2, 1965, pp 217-222.
*AEC
EDC May 1, 1966

Turbulence Studies in Conjunction With the Determination of the Acoustic Characteristics of a Jet, by Ye. V. Vlasov.
RUSSIAN, per, Inzh-Fiz Zhur, Vol VIII, No 5, 1965, pp 568-573.
*NASA TT F-9896

The Broadening and Displacement of Spectral Lines in a Gas-Discharge Plasma, by M. A. Mazing, S. L. Mandel'shtam.
RUSSIAN, bk, Issledovaniya po Eksperimental'noi Teoreticheskoi Fiziki, Moscow, 1959, pp 128-133.
Dept of Navy 4531/APL/JHU T-1687

Scientific
Physics (Contd)

Radial Flow of an Electroconductive Gas in a Moving Magnetic Field, by Ye. I. Yantovskiy, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 2, 1961, pp 114-115. 9698931
FTD-TT-65-1659

Strong Injection into a Turbulent Boundary Layer, by M. M. Gurfink.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh, No 5, 1961, pp 152, 153.
Dept of Navy 4526/APL/JHU T-1669

On the Refining the Classical Flexure Theory of Anisotropic Plates, by L. A. Agalovyan.
RUSSIAN, per, Izv. Akad. Nauk Armyansky SSR Seriya Fiziki Matematicheskikh Nauk, Vol 18, 1965, pp 16-30.
*ACSI I-9326
ID 220401466

Calculation of Aerodynamic Interference in a System of Bodies in an Ideal Liquid, by D. N. Gorelov.
RUSSIAN, per, Iz Akad Nauk SSSR, Mekh i Mashin, No 5, 1964, pp 33-38.
*NASA TT F-9882

Optimum Motion in a Central Field When the Operation Time of a Propulsion System is Given, by Yu. N. Ivanov, V. A. Vinokurov.
RUSSIAN, per, Iz Akad Nauk SSSR, Ser Mekh, No 5, 1965, pp 56-59.
*NASA TT F-9892

Supersonic Flow Over Bodies of Varying Shape With A Detached Shock Wave, by S. M. Gilinskiy, G. F. Telenin.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 5, 1964, pp 148-156.
Dept of Navy Tr 4459/APL/JHU T-1593

Approximate Solution of the Problem of Bending of a Shallow Spherical Shell Weakened by an Aperture, by N. Kh. Suyunshkaliyev, 17 pp.
RUSSIAN, per, Iz Ak Nauk UzbekSSR, Ser Tekh Nauk, No 3, 1964, pp 43-53. 9699095
FTD-TT-65-1076

Scientific
Physics (Contd)

On the Question of Excitation and Extinction of Photoconductivity in AgBr Single Crystals, by K. N. Loskutov.
RUSSIAN, per, Iz VUZ, Fiz, No 4, 1964, pp 72-75.
*FTD-TT-65-873

On the Calculation of Eddy Currents Induced by the Motion of a Conducting Tube in a Magnetic Field, by R. A. Pavlovskiy.
RUSSIAN, per, Iz VUZ, Fizika, No 3, 1965, pp 150-151.
Dept of Navy Tr 4460/APL/JHU T-1594

Investigation of Heat Transfer During Melting of Ice Under Free Flow Conditions, by V. Filatkin.
RUSSIAN, per, Kholodil'n Tekhn Vol XXXVII, No 4, 1960, pp 23-25.
NASA TT F-9739

Quasilinear Theory of Plasma Oscillations, by A. A. Vedenov, et al.
RUSSIAN, per, Nuclear Fusion, Part 2, 1962, pp 465-475.
NASA TT F-9729

Kinetic Theory of Electromagnetic Waves in a Limited Plasma, by ... N. Kondratenko.
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 267-271.
*AEC

Cerenkov Absorption of Alfeven Waves and of Fast Magneto-Acoustic Waves in an Inhomogeneous Plasma, by V. V. Dolgoplov, Stepanov, K. N.
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 276-278,
*AEC

Normal Modes of Plasma Oscillation, by Michel Trocheris.
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 299-314.
*AEC

Electrical Conductance of a Turbulent Plasma, by V. I. Petviashvili.
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 315-317.
*AEC

Scientific
Physics (Contd)

Effect of an Electric Field on the Spectrum of Oscillations in an Inhomogeneous Plasma, by I. S. Baikov,
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 318-325.
*AEC

Effect of a Cold-Plasma Component on the Stability of an Inhomogeneous Hot Plasma, by I. A. Baikov.
RUSSIAN, per, Nuclear Fusion, Vol V, No 4, 1965, pp 326-329
*AEC

Interaction of Plasma Blobs with Magnetic Fields, by V. S. Voytsenya.
RUSSIAN, rpt, Oral report presented at the Second International Conference on Plasma Physics and Controlled Nuclear Fusion Research, Culham, England, 6-10 Sep 1965. 9232024
AEC-LA-Tr-65-30

Photofission of Even-Even Near the Threshold, by N. S. Rabotnov.
RUSSIAN, rpt, Paper 81 submitted to the International Symposium on Fission held on March 22-26, 1956 at Salzburg, Austria, pp 1-30. 9231758
AEC-ANL-Tr-245

Determination of Conditional Explosives at Low Charge Densities, by L. N. Stesik, 5 pp.
RUSSIAN, per, PMTE, No 4, 1964, pp 124-126.
Dept of Navy Tr 4521/ONI Tr 2111

The Nature of a Detonation, by K. I. Shchelkin, 39 pp.
RUSSIAN, per, Priroda, No 7, 1964, pp. 14-23, and continued in No. 8, 1964, pp. 10-20.
JPRS 34062

Waves in Hypersonic Flow, by G. G. Chernyy. 35 pp.
RUSSIAN, per, Prikladnaya Matematika I Mekhanika, Vol 29, No 4, 1965, pp 616-634. 9699225
FTD-MT-65-566

Scientific
Physics (Contd)

The Physics of Very Hot Plasma, by
L. A. Artsimovich.
RUSSIAN, per, Priroda, No 4, 1965, pp 17-24.
NASA TT F-9457

Distortion of Unmodulated Electromagnetic Waves
in Nonlinear Dispersing Media. Generation of
Optical Harmonics, by B. A. Akhmanov and R. V.
Khokhlov, 45 pp.
RUSSIAN, bk, Problemy Nelineynoy Optiki
(Elektromagnitnyye Volny v Nelineynykh Disper-
giruyushchikh Sredakh, 1962-63, pp. 145-196.
JPRS 34231

Three-Dimensional Flow of Ideal
Gas Past Smooth Bodies, by
K. I. Babenko, et al.
RUSSIAN, rpt, Prostranstvennoye Obtekaniye
Gladkikh tel Ideal'nykh Gazov, 1964,
508 pp.
*NASA TT F-380

On the Problem of Variations of the Isotope
Ratio K^{39}/K^{41} in Natural Potassium,
by M. Sh. Kaviadze.
RUSSIAN, per, Soobshch Ak Nauk Gruzii SSR,
Vol XXV, No 1, 1964, pp 67-74. 9231778
AEC-K-Tr-4

Rapid Method of Calculating the
High-Temperature Heat Capacity of
Solid Inorganic Compounds, by
D. Sh Tsagareyshvili, G.G. Gvelesiani.
RUSSIAN, per, Soobshch Akad Nauk Gruz SSR,
Vol XXXVII, No 3, 1965, pp 581-586.
NASA TT F-9711

Theory of Shells and Plates, by
V. V. Bolotin, et al.
RUSSIAN, rpt, Teoriya Obolochek
i Plastin, 1964, 1016 p.
*NASA TT F-341

Application of the Method of Dynamic
Stiffness for Calculation of the
Frequency of Natural Oscillations of
Composite Shells, by I. Ye. Sakharov,
12 pp.
RUSSIAN, rpt, Teoriya Obolochek i
Plastin Trudy IV Vsesoyuznoy Konferentsii
po Teorii Obolochek i Plastin-24-31
Okt'yabrya 62, 1964, pp 861-870. 9699058
FTD-TT-65-1143

Scientific
Physics (Contd)

Characterization of a Class of Probability
Distributions by Some Statistical distri-
bution, by Yu. V. Prokhorov.
RUSSIAN, per, Teor Veroyat i ee Primenen,
Vol X, No 3, 1965, pp 479-487.
*Dept of Navy JHU/APL No J-745

Characterization of the Poisson Distribution
and its Statistical Applications,
by L. N. Bol'shev.
RUSSIAN, per, Teor Veroyat i ee Primenen,
Vol X, No 3, 1965, pp 488-499.
*Dept of Navy JHU/APL No J-742

Distribution of the Maximum of a Process with
Independent Increments, by E. S. Shtatland.
RUSSIAN, per, Teor Veroyat i ee Primenen,
Vol X, No 3, 1965, pp 531-535.
*Dept of Navy JHU/APL No J-744

Calculation of the Thermodynamic
Properties of Potassium Vapor at
Temperatures Up to 1300 Degrees
and Pressures Up to 25 KG/SQ CM.
by M. P. Vukalovich, et al.
RUSSIAN, per, Teploenergetika,
Vol IX, No 10, 1962, pp 65-72.
*NASA TT F-9862

Studying Conductivity of Plasma in a
Transverse Magnetic Field, by
A. V. Nedospasov, I. Ya. Shipuk, 11 pp.
RUSSIAN, per, Teplofizika Vysokikh
Temperatur, Vol III, No 2, 1965,
pp 186-191. 9698943
FTD-TT-65-1610

The State of Gas Behind a Strong Shock
Wave, by L. M. Biberman, I. T. Yakubov.
RUSSIAN, per, Teplofiz, Vysokikh Temperatur,
Vol III, No 3, 1965, pp 340-353.
NASA TT F-9761

Intra- and Inter-Center Energy Migration in
Polyactivated Alkalihalide Crystal Phosphors,
by H. A. Soovik, 19 pp.
RUSSIAN, rpt, Trudy Instituta Fiz i Astron
Ak Nauk Estonskoy SSR. Issled po Lyumi-
nessentsii, No 23, pp 78-96.
Dept of Navy Tr 4452/NRL Tr 1044

Scientific
Physics (Contd)

Several Ternary Compounds of the Type -
 $A^+B_2IV CV_3$, by V. I. Sokolova,
Ye. V. Tsvetkova, 8 pp.
RUSSIAN, per, Trudy Inst Fiz i Matemat,
Ak Nauk MolSSR, 1964, pp 168-172. 9699831
FTD-TT-65-765

Study Method and Physics of Heat Exchange
During Vapor Condensation, by N. V. Zozulya.
RUSSIAN, per, Trudy Instituta Teploener-
getiki, Akademiya Nauk Ukr. SSR, No 14,
1958, pp 32-42. 9231706
NASA TT F-369

Use of EPR (Electron Paramagnetic
Resonance) for the Study of Active Centers
in Liquid Phase Oxidation Reactions, by
Ya. A. Lebedev, V. F. Tsepalov, 9 pp.
RUSSIAN, per, Trudy Soveshch po Fizich
Metodam Issled Organ Soyed i Khim Protse
sov, 10 - 17 Maya 1962, 1964, pp 190-195.
9699646
FTD-TT-65-1199

Investigation of the Process of Heat
Transfer and Pressure Drop in Coil-Pipe
Counterflow Heat Exchangers, by
Borovik, Mikhailov.
RUSSIAN, per, Ukrains'kyi Fiz Zhur,
Vol IX, 1964, pp 749-758.
*AEC
EDC Mar 1966

Comparison of the Efficiencies of
Various Heat Exchangers of Liquors
(Liquefaction Machines).
RUSSIAN, per, Ukrains'kyi Fiz Zhur,
Vol IX, 1964, pp 759-765.
*AEC
EDC Mar 1966

Stability of Elastic Systems, by
A. S. Vol'mir, 1029 pp.
RUSSIAN, bk, Ustoychivost' Uprugikh
Sistem, Moscow, 1963, pp 1-879. 9699826-V
FTD-TT-64-335

Physical Problems of Quantum Electronics,
by A. N. Orayevskiy, 5 pp.
RUSSIAN, per, Vestnik Akademii Nauk SSSR,
No 12, Dec 1965, pp. 47-50.
JPRS 34262

Scientific
Physics (Contd)

Generalization in Interpreting Aerial
Photos, by L. E. Smirnov, 11 pp.
RUSSIAN, per, Vest Leningrad Univer, No 18,
1965, pp 97-106.
ACSI I-9407
ID 2204016166

Introduction to the Technical Theory of
Stability of Motion, by K. A. Karacharov,
A. G. Pilyutik, 237 pp.
RUSSIAN, bk, Vvedeniye V Tekhnicheskuyu
Teoriyu Ustoychivosti Dvizheniya, 1962,
pp 1-243.
FTD-TT-64-449

Contribution to the Problem of Estimating the
Length of the Chemical Reaction Zone Behind the
Front of a Detonation Wave, by G. G. Rempel.
RUSSIAN, per, Vzryvnoe Delo, Sbornik, Promysh-
lennye Vzryvchatye Veshchestva, No 52/9, 1963,
pp 39-56.
Dept of Navy Tr 4453/APL/JHU TG 230-T453

Improvement of Methods for Measuring Detonation
Rates, by F. M. Galadzhii, V. N. Zenin, et al.
RUSSIAN, per, Vzryvnoe Delo, Sbornik, Promysh-
lennye Vzryvchatye Veshchestva, No 52/9, 1963,
pp 108-114.
Dept of Navy Tr 4454/APL/JHU TG 230-T461

Investigation of a Directed Beam of High-
Speed Electrons Through Mercury Vapors
in a Heated-cathode Discharge Tube, by
V. Polin, S. Gvozdozer.
RUSSIAN, per, Zhurnal Eksperimental'noy i
Teoreticheskoy Fiziki, Vol 8, No 4, 1958,
pp 436-443. 9231703
NASA TT F-370

Electron Drift in Plasma, by Kh. M. Fataliyev,
G. V. Spivak, et al.
RUSSIAN, per, Zhurnal Eksperimental'noy i
Teoreticheskoy Fiziki, Vol 9, No 2, 1959,
pp 167-175. 9231708
NASA TT F-371

On the Stability of a Chapman-Jouguet Detonation
by V. V. Pukhnachev.
RUSSIAN, per, Zhur Prikl Mekh i Tekh Fiz, No 6,
1963, pp 66-73.
Dept of Navy Tr 4461/APL/JHU T-1597

Scientific
Physics (Contd)

Gas Temperature behind Reflected Shock Waves,
by A. A. Borisov, I. S. Zaslanko.
RUSSIAN, per, Zhur Priklad Mekh i Tekh Fiz,
No 6, 1964, pp 104-109.
*Dept of Navy JHU/APL No J-734

Investigation of the System of Equations
of the Laminary Boundary Layer in a
Compressible Gas Near the Stagnation Line,
by B. N. Reznikov, Yu. N. Smyslov, 9 pp.
RUSSIAN, per, Zhur prik Mekh i Tekh Fiz,
No 3, 1965, pp 85-88. 9699631
FTD-TT-65-1773

Study of the Stability of a Plane Stationary
Detonation Wave, by V. V. Pukhnachev.
RUSSIAN, per, Zhur Priklad Mekh i Tekh Fiz,
No 4, 1965, pp 79-85.
*Dept of Navy/JHU/APL J-741

Transfer of Thermal Radiation in a Plane
Layer of an Absorbing Medium,
by N. A. Rubtsov.
RUSSIAN, per, Zhur Priklad Mekh i Tekh Fiz,
No 5, 1965, pp 58-67.
*Dept of Navy JHU/APL No J-757

Effectiveness of a Gas Screen in a Turbu-
lent Boundary Layer, by E. P. Volchkov.
RUSSIAN, per, Zhur Priklad Mekh i Tekh
Fiz, No 5, 1965, pp 142-146.
*Dept of Navy/APL/JHU J-762

Method of Calculating Boundary Layers on
Blunt Cones in a Supersonic Stream,
by A. L. Ankudinov.
RUSSIAN, per, Zhur Vychisl Mate i Mate Fiz,
Vol V, No 5, 1965, pp 960-966.
*Dept of Cavy/APL/JHU J-761

Fundamental Researches on the Fractionation
of High Polymers. I. On the Absolute
Evaluation of the Fractionation Curves,
by Chien Jen-yuan, Chu Shan-nong, 16 pp.
CHINESE, per, Hua Hseuh Hsueh Pao (Acta
Chimica Sinica), Vol XXVII, No 2, 1961,
pp 147-154. 9699096
FTD-TT-64-1003

Atomic Physics, by Cheng I-shan (6774 0001
0810), 7 pp.
CHINESE, bk, Yuan-tau Wu-li-hsueh, May 1965
JPRS 34367

Scientific
Physics (Contd)

Measuring the Refractive Index of thin
Layers by Means of a Method based on the
Brewstre Angle of Incidence, by Kuznikova,
CZECHOSLOVAKIA, per, Jemma Mechanika a
Optika, No 6, 1965.
*ACSI I-9418-A
ID 2204017866

Production of Gelatine filters for
Photometry, by Jakubek,
CZECHOSLOVAKIA, per, Jemma Mechanika a
Optika, No 6, 1965.
*ACSI I-9418-B
ID 2204017866

Quartz-iodine Lamps for Photography and
Cenematography,
CZECHOSLOVAKIA, per, Jemma Mechanika a
Optika, No 6, 1965.
*ACSI I-9418-D
ID 2204017866

Critical Illumination for the Fluorescence
Microscope Detection of B. AAR and in Blue
Light, by Houang Lay, 9 pp.
FRENCH, per, Bull. de l'Inst. d'Hygiene du
Maroc, Vol III, pp 21-24, 1962-63.
Dept of Navy Tr 4463/NMS 1034

Principles and Methods of Rational Thermo-
dynamics, by H. de Beaumont, 54 pp.
FRENCH, pamphlet, Editions Industrielles
Techniques et Litteraires, 1954, pp. 1-47.
JPRS 33962

Study and Development of Cascade Image
Intensifier Tubes, by S. Veron.
FRENCH, bk, Entre de Physique Electronique
et Corpusculaire, Domaine de Corbeville
par Orsay, pp 1-13.
ACSI I-9595
ID 2204020966

Search for an Intrinsic Theory of
Detonation, by J. Berger, R. Blanchard,
et al. 11 pp.
FRENCH, rpt, Presented at the International
Conference on Detonation Waves,
Paris, France 1961. 9231971
AEC UCRL-Trans-1272-L

Scientific
Physics (Contd)

Generation of the Second Harmonic by Uncertain Media: "Critical Opalescence" in Certain Changes from Solid to Solid Phases, by Joseph Lajzerowicz.
FRENCH, per, Solid State Communications, V Vol III, 1965, pp 369, 370.
*Dept of Navy/NRL

Thermodynamic Study of the Uranium-Oxygen System by Mass Spectrometry: The Heat of Sublimation of Uranium, by A. Pattoret, S. Smoes, et al.
GERMAN, rpt, EUR 2458.F 1965.
*AEC 2353

New Method of Eliminating Crack Effects in X-Ray Small-Angle Exposures, by Volkmar Gerold
GERMAN, per, Acta Cryst, Vol X, 1957, pp 287-290.
*AEC ORNL-Tr-1112
EDC Mar 16, 1966

Smearing and the Removal of Smearing Effects in X-Ray Small-Angle Diagrams, by O. Kratky, G. Porod.
GERMAN, per, Acta Phys Austr Vol XIII, 1960, pp 76-128.
*AEC ORNL-Tr-1113
EDC Mar 16, 1966

Interference Effects Produced by Gaseous Side-Jets Issuing into a Supersonic Stream, by F. Maurer.
GERMAN, per, DVL-Bericht, No 382, Jan 1965.
Dept of Navy Tr 4477/APL/JHU TG 230-T460

Development of an X-Ray Spectrometer and the Appropriate Detection Methods for Soft X-Rays, by M. Kornherr.
GERMAN, per, Institut fur Plasmaphysik, G.m.b.H., Feb 1965. 9231991
UCRL-Tr-1276

Study of Vegard's Law, by Gerard Fournet.
GERMAN, per, Journal of Physics and Radium, Vol XIV, 1953, pp 374-380
*AEC IS-Trans-27
EDC Mar 14, 1966

Scientific
Physics (Contd)

On the Dynamic Behavior of Infrared Gas Analyser, by J. Jang, 3 p.
GERMAN, per, Messen Steuern Regeln, May 1965, pp 158-160.
*ACSI I-9296
ID 2204011166

Decoupling Possibilities of Fabry-Perot Interferometers, by J. Schwider, 31 pp.
GERMAN, per, Optica Acta, Vol XII, No 1, 1965, pp 65-79.
Dept of Navy Tr 4450/NRL Tr 1042

On the Theory of Heat Transfer at Strong Temperature and Pressure Gradients in the Direction of Flow, For Plane Rotationally Symmetrical Boundary Layers, by A. Walz.
GERMAN, rpt, Paper Presented at the Annual Meeting of the Wissenschaftliche Gesellschaft fur Luft- und Raumfahrt and the Deutsche Gesellschaft fur Raketentechnik und Raumfahrtforschung, Berlin, Sept, 14-18, 1964, 52 pp.
*NASA TT F-9768

Halo and Thiocyanate-Substituted Thio-semi Carbozides and the Thiosemi-Carbozones and Their Behavior in Paper Chromatography, by Von D. Gockeritz, R. Pohloudek-Fabini.
GERMAN, per, Pharmazie, Vol XVII, 1962, pp 679-685.
*ACSI I-9311
ID 2204012666

Thermally Activated Processes at the Deformation of Neutron-Irradiated Cu-Single Crystals, I. Determination of the Activation Energy, by J. Diehl, G. P. Seidel, et al. 13 pp.
GERMAN, per, Phys Stat Sol, Vol XI, 1965, pp 339-354. 9231980
AEC ANL-Trans 254

Tonic Conductivity of Pure and Doped AgBr and AgCl Single Crystals, by P. Muller.
GERMAN, per, Physica Status Solidi, Vol XII, 1965, pp 775-794.
*AEC 2351

Scientific
Physics (Contd)

On the Elastic After-Effect, Elastic Hysteresis, and Internal Friction, by K. Bennewitz.
GERMAN, per, Physikalische Zeitschrift, Vol XXV, No 17, 1924, pp 417-431.
Dept of Navy Tr 4457/APL/JHU T-1581

Dispersion of Light in Fog, by F. Lohle.
GERMAN, per, Physikalische Z, Vol XLV, 1944, 199-205. 9231922
UCRL Tr 1283(L)

Use of Diffraction Gratings in Small Mirror Monochromators, by A. Bril, W. van Mewis-Hockstra.
GERMAN, per, Sonderdruck aus Zeits fur Instrumentenkunde, Vol 71, No 8, 1963. 9230629
NSTIC Tr. 1704

The Angular Dependence of a Molecular Beam Produced by a Knudsen Cell, by V. Ruth.
GERMAN, per, Z fur Angewandte Physik, Vol XVI, 1963, pp 53-55. 9232001
AEC-LA-Tr-65-25

High Secondary Electron Emission from BaF₂ Films of Low Density, by Hellmut Seiler, Manfred Stark.
GERMAN, per, Zeit Angew Phys, Vol XIX, 1965, pp 90-93.
*AEC SLAC Trans 40
April 1966 EDC

A Method of Preparing Large Crystals, by S. Kyropoulos.
GERMAN, per, Z Anorg Chem, Vol CLIV, 1926, pp 308-313.
*AEC
EDC May 1, 1966

A Contribution to the Investigation of Reciprocal Lattices of Single Crystals by Means of Kikuchi-Patterns, by W. D. Riecke, Y. Sakaki.
GERMAN, per, Z fur Physik, Vol CLVI, 1959, pp 534-554. 9231790
AEC-UCRL-Tr-1227

Scientific
Physics (Contd)

Experimental and Theoretical Results on Heat Transfer at the Angle of Attack of Swept Wings in Hypersonic Flight, by J. Valensi, et al.
ITALIAN, rpt, Paper Presented at the Meeting of the Fluid Mechanics Group AGARD, Naples, May 10-14, 1965.
NASA TT F-9744

Some Surface Variables Influencing Heat Transfer in Boiling, by Sergio Faggiani.
ITALIAN, rpt, Termotechnica (Milan), Vol XVII, 1963, pp 734-738. 9231770
AEC-ANL-Tr-244

Transient Heat Transfer in the Heterogeneous Water Reactor (II), by Shigenori Hayashi.
JAPANESE, per, J Atomic Energy Society, Vol VI, No 7, 1964, pp 399-405. 9231759
AEC-ANL-Tr-237

Some Considerations of Build-Up Factors in Gamma Ray Penetration for Multiple Layers, by Mitsuyuki Kitazume, JAPANESE, per, Nippon Genshiryohu Gakkaishi, Vol VII, No 9, 1965, pp 496-499.
*AEC ORNL-Tr-1134
EDC April 1, 1966

Differential Equations of Elastic Equilibrium of Shells of Rotation With Meridional Ribs at Power and Temperature Loads, by L. O. Il'yin, 15 pp.
UKRAINIAN, per, Prik Mekh, Vol X, No 3, pp 254-262. 9699080
FTD-TT-65-1230

Optical Properties of Mercury Sulfide, by B. F. Bilen'kiy.
UKRAINIAN, per, Ukrains Fiz Zhur, Vol VIII, No 8, 1963, pp 913-915.
*Dept of Navy/APL/JHU J-775

Effect of Pulse Front Stability on the Direct Transitional Process in a Semiconductor Diode, by Klimenko, Tkhonik.
UKRAINIAN, per, Ukrainskiy Fizichnyi Zhurnal, Vol IX, No 11, pp 1271-1273.
ACST T-9369
ID 220415866

Scientific
Physics (Contd)

On the Width of Combined Resonance
Bands, by I. I. Boyko, 8 pp.
UKRAINIAN, per, Ukrayns'kiy Fiz Zhur,
Vol IX, No 12, 1964, pp 1286-1290.
9699070
FTD-TT-65-925

Studying the Effect of Change in Thickness
of a Rectangular Plate in Plan Into Basic
Frequency of Lateral Oscillations, by
G. A. Izdebs'ka, 8 pp.
UKRAINIAN, per, Ak Nauk UKRRSR, Dopovidi,
No 9, 1964, pp 1154-1158. 9698951
FTD-TT-65-1037

He Ne Gas Laser, by F. Petru.
Czech, per, Slaboproudny Obzor, No 4, 1964,
pp 181-185.
ACSI I-8498 A
ID 2204050565

The Modification of the Photoelectric
Properties of Evaporated Cadmium Sulfide
Semiconductors by Sulfonation,
by L. Gombay, N. Marek.
GERMAN, per, Acta Phys Chem, Vol II, Nos 1/4,
1956, pp 34-38.
*AEC
EDC April 15, 1966

Miscellaneous

Heuristics and Cybernetics, by Veniamin
Noyevich Pushkin, 50 pp.
RUSSIAN, monograph, Evrstika i Kibernetika,
1965, pp. 1-48.
JPRS 34182

Soviet Scientist Kapitsa Acknowledges Short-
comings in Industrial Application of Soviet
Scientific Achievements, by P. L. Kapitsa, 7 pp.
RUSSIAN, np, Komsomol'skaya Pravda, 20 Jan
1966, p. 2.
JPRS 34194

Scientific
Miscellaneous (Contd)

Organization of Scientific and Technical
Information in the Communist World, by
A. I. Mikhaylov, A. I. Chernyy, et al.
RUSSIAN, rpt, Osnovy Nauchnoy Informatsii
(Foundations of Scientific Information),
1965, 656 p.
ATD Rpt 66-11

Voices Around the Logs, by J. Krenek.
CZECH, per, Ceskoslovensky Vojak, Vol 14,
No 20, 1965, pp 3-6.
*ACSI I-9323
ID 2204013866

The Bjorling Mystery, by Dan Laursen.
DANISH, bk, Oct 1965, pp 345-368.
ACSI I-8893
2204070765

The 1965, Annual Report of the Danish
Academy of Technical Sciences.
DANISH, rpt, Akademiet for de Tekniske
Vide nskaber 1965, pp 35-39; 65; 65-70;
87-88; 96-104.
*ACSI I-9738
ID 2204027766

Scientific Research.
FRENCH, rpt, Republique Arabe Annuaire,
pp 107 -112, 114.
*ACSI I-9652
ID 2204021566

A Large Capacity Tank in a Briefcase, by
G. Kurze, 3 p.
GERMAN, per, Jugend und Technik, No 8,
1965, pp 745-747.
*ACSI I-9300
ID 2204011666

INFORMATION RECEIVED DURING MARCH

ON COVER -TO-COVER TRANSLATIONS

Aeta Mathematica Sinica, Vol XV, No 3, 1965.
American Mathematical Society
Vol VII, No 1, 1965

Aptekhnoye Delo, Vol XV, No 1, 1966.
*JPRS/SF-4170/1

Astrofizika, Vol I, No 1, Jan/Mar 1965.
Paraday Press

Byulleten Eksperimental'noi Biologii i
Meditsiny, Vol LIX, No 5, 1965.
CB

Doklady Akademii Nauk SSSR, Biological
Sciences, Vol CLXI, No 1-6, Mar/Apr 1965.
CB

Doklady Akademii Nauk SSSR, Botanical
Section, Vol CLX-CLXII, No 1-6, 1965.
CB

Doklady Akademii Nauk SSSR, Mathematical
Section, Vol CLXIV, No 1-6, 1965.
American Mathematical Society

Doklady Akademii Nauk SSSR, Vol CLXIII,
Nos 4-6, Aug 1965.
Am Inst Phys
Vol X, No 8, Feb 1966

Doklady Akademii Nauk SSSR, Physics Section,
Vol CLXIV, No 1-3, Sept 1965.
Am Inst Phys
Vol X, No 9, Mar 1966

Doklady Soil Science, A Translation of
Selected Articles, No 13, 1964.
Soil Sci Soc Am

Elektrosvyaz, Vol XIX, No 10, 1965.
IEEE

Fiziologiya Rastenii, Vol XII, No 3,
May/Jun 1965.
CB

Genetika, No 1, 1966.
*JPRS/SF-4174

Geologiya Nefti i Gaza, Vol VI, No 3,
1962.
Geological Society of America

Gigiyena Truda i Professional'nyye
Zabolevaniya, No 2, 1966.
*JPRS/NY-13201/2

Hung-Ch'i, No 2, 1966.
JPRS 34405

Izvestiya Akademii Nauk SSSR, Atmosfere i
Okeanologicheskii, Vol I, No 8, 1965.
The American Geophysical Union

Izvestiya Akademii Nauk SSSR, OTN, Tekh-
nicheskaya Kibernetika, No 6, 1965.
JPRS 34515

Izvestiya VUZ Fizika, No 1, Jan/Feb 1965.
Paraday Press

Izvestiya VUZ Priborostroyeniye, Vol VIII,
No 6, 1965.
*JPRS/C80 1880

Izvestiya VUZ Radiofizika, Vol VIII, No 1,
Jan/Feb 1965.
Paraday Press

Izvestiya VUZ Radiotekhnika, Vol VIII, No 1,
Jan/Feb 1965.
Paraday Press

Kibernetika, No 5, Sept/Oct 1965.
JPRS 34651

Kinetika i Kataliz, Vol VI, No 3, May/Jun
1965.
CB

Klinicheskaya Meditsina, Vol XLIV, No 1,
1966.
*JPRS/DC-12187/1

Kolloidnyi Zhurnal, Vol XXVII, No 4, Jul/Aug
1965.
CB

Kosmicheskiye Issledovaniye, Vol III, No 5,
1965.
FTD-TT-65-1702

Kosmicheskiye Issledovaniya, Vol IV,
No 1, 1966.
*FTD TT-66-76

Kristallografiya, Vol X, No 5, Sept/Oct 1965.
Am Inst Phys
Vol X, No 5, Mar/Apr 1966

Meditsinskaya Promyshlennost' SSSR,
No 2, 1966.
*JPRS/SF-4171/2

Plasticheskie Massy, No 1, 1965.
Rubber and Plastics Research Association
of Great Britain
No 1, 1966

Plasticheskie Massy, No 2, 1965.
Rubber and Plastics Research Association
of Great Britain
No 2, 1966

Problemy Kibernetiki, No 15, 1965.
JPRS 34423

Radiobiologiya, Vol VI, No 1, 1966.
*AEC

Radiotekhnika, Vol XX, No 10, 1965.
IEEE

Sovetskoye Zdravookhraneniye, Vol XXV,
No 1, 1966.
*JPRS/NY-13202/1

Sovetskoye Zdravookhraneniye, Vol XXIV,
No 2, 1966.
*JPRS/NY-13202/2

Tekhnika i Vooruzheniye, No 6, 1965.
ACSI I-9156
ID 2204071065

Tekhnika i Vooruzheniye, No 9, 1965.
ACSI I-9036
ID 2204070265

Tekhnika i Vooruzheniye, No 10, 1965.
ACSI I-9157
ID 2204071165

Tekhnika i Vooruzheniye, No 11, 1965.
*ACSI I-9582
ID 2204020566

Tekhnika i Vooruzheniye, No 12, 1965.
*ACSI I-9702
ID 2204026566

Tsvetnye Metally, Vol XXXVII, No 9, 1964.
Primary Sources
Vol V, No 9, 1964

Tsvetnye Metally, Vol XXXVII, No 10, 1964.
Primary Sources
Vol V, No 10, 1964

Tyl i Znabzheniye Sovetskikh Vooruzhennykh
Sil, No 3, 1965.
*ACSI I-9703
ID 2204026666

Tyl i Znabzheniye Sovetskikh Vooruzhennykh
Sil, No 4, 1965.
*ACSI I-9704
ID 2204026766

Tyl i Znabzheniye Sovetskikh Vooruzhennykh
Sil, No 5, 1965.
*ACSI I-9705
ID 2204026866

Tyl i Znabzheniye Sovetskikh Vooruzhennykh
Sil, No 6, 1965.
*ACSI I-9706
ID 2204026966

Tyl i Znabzheniye Sovetskikh Vooruzhennykh Sil,
No 10, 1965.
ACSI I-8916
ID 2204066165

Tyl i Znabzheniye Sovetskikh Vooruzhennykh
Sil, No 1, 1966.
*ACSI I-9636
ID 2204021366

Vestnik Akademii Meditsinskikh Nauk SSSR,
Vol XXI, No 1, 1966.
*JPRS/NY-13199/1

Vestnik Akademii Meditsinskikh Nauk SSSR,
Vol XXI, No 2, 1966.
JPRS/NY-13199/2

Vestnik Akademii Meditsinskikh Nauk SSSR,
Vol XXI, No 3, 1966.
*JPRS/NY-13199/3

Vestnik Protivovozduшной Oborony, No 11,
1965.
*ACSI I-9594
ID 2204020866

Zhurnal Analiticheskoi Khimii, Vol XX, No 6, 1965.
CB

Zhurnal Eksperimental'noi i Teoreticheskoi
Fiziki, Vol XLVIII, No 3, 1965.
Am Inst Phys
Sov Phys JETP
Vol XXI, No 3, Sept 1965

Zhurnal Obshchei Khimii, Vol XXXV, No 3, 1965.
CB

Zhurnal Obshchei Khimii, Vol XXXV, No 4,
1965.
CB

Zhurnal Prikladnoi Khimii, Vol XXXVIII,
No 4, 1965.
CB

Zhurnal Tekhnicheskoi Fiziki, Vol XXXV,
No 9, 1965.
Am Inst Phys
Vol X, No 9, March 1966

CHINESE MATHEMATICS

数 学 学 报

ACTA MATHEMATICA SINICA

TABLE OF CONTENTS

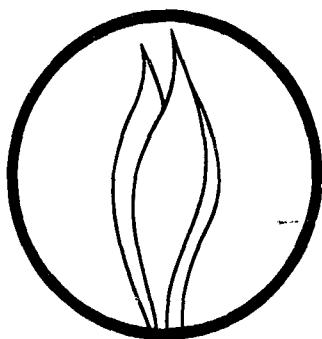
(Vol. 7, No. 1, 1965—Chinese original Vol. 15, No. 3, 1965)

	Chinese page	Page
龔 昇 Gong Sheng* (K'ung Sheng) <i>Fourier analysis on unitary groups. V</i> <i>Spherical summability and Fourier integrals</i> (305)	(305)	1
石鍾慈、王伯英 Shi Zhong-ci (Shih Chung-tz'u) and Wang Bo-ying (Wang Po-ying) <i>Bounds for the determinant, characteristic roots and condition number of certain</i> <i>types of matrices</i> (326)	(326)	21
王梓坤 Wang Zi-kun (Wang Tzu-k'un) <i>On zero-one laws for Markov processes</i> (342)	(342)	41
万哲先 Wan Zhe-xian (Wan Che-hsien) <i>Studies in finite geometries and the con-</i> <i>struction of incomplete block designs. I Some "Anzahl" theorems in symplectic</i> <i>geometry over finite fields</i> (354)	(354)	55
万哲先 Wan Zhe-xian (Wan Che-hsien) <i>Studies in finite geometries and the con-</i> <i>struction of incomplete block designs. II Some PBIB designs based on sym-</i> <i>plectic geometry over finite fields</i> (362)	(362)	63
鹿立江 Lu Li-jiang (Lu Li-chiang) <i>A uniqueness theorem for the first boundary</i> <i>value problems of linear elliptic and parabolic equations with discontinuous</i> <i>boundary values</i> (372)	(372)	74
张 同、郭於法 Zhang Tong (Chang T'ung) and Guo Yu-fa (Kuo Yü-fa) <i>A class</i> <i>of initial value problems for systems of aerodynamic equations</i> (386)	(386)	90
萧修治 Xiao Xiu-zhi (Hsiao Hsiu-chih) <i>On a generalization of a theorem of</i> <i>Malmquist for a certain type of differential equations</i> (397)	(397)	102
居乃旦 Ju Nai-dan (Chu Nai-tan) <i>The limit cycles and the global structure of</i> <i>integral curves of a class of nonlinear differential equations</i> (406)	(406)	112
谢庭藩 Xie Ting-fan (Hsieh T'ing-fan) <i>On linear methods of approximation to</i> <i>continuous functions</i> (419)	(419)	126
龔 昇、孙继广 Gong Sheng (Kung Sheng) and Sun Ji-guang (Sun Chi-kuang) <i>Integrals of Cauchy type in several complex variables. I Integrals of Cauchy</i> <i>type on a hypersphere</i> (431)	(431)	138
李根道 Li Gen-dao (Li Ken-tao) <i>Conjugate classes of Cartan subalgebras in real</i> <i>semisimple Lie algebras</i> (444)	(444)	152

(Continued)

* The names of Chinese authors are given in the Pinyin (New Latin) form, as of 1960, followed in parentheses by the Wade-Giles.

Available From the American Mathematical Society
Vol VII, No 1, 1965



Astrophysics

The Faraday Press
cover-to-cover translation of Astrofizika

Contents

Volume 1, Number 1 • January - March 1965

Editorial Board *Astrofizika*

a publication of the
Academy of Sciences ArmSSR

V. A. Ambartsumyan,
Editor-in-Chief

L. V. Mirzoyan,
Associate Editor

A. A. Boyarchuk
B. A. Vorontsov-Vel'yaminov
G. A. Gurzadyan
S. A. Kaplan
B. E. Markaryan
V. V. Sobolev

From the Editors

The Mass Defect of Baryon Stars, V. A. Ambartsumyan and

G. S. Saakyan..... 7 1

Tables of Functions Encountered in the Theory of Resonance

Radiation Transfer. I. V. V. Ivanov and V. T. Shcherbakov 22 10

Tables of Functions Encountered in the Theory of Resonance

Radiation Transfer. II. V. V. Ivanov and V. T. Shcherbakov..... 31 17

A Detailed Photometric and Colorimetric Study of Galaxies in the

Constellation Virgo. B. E. Markaryan, E. Ya. Oganessian, and S. N. Arakelyan 38 23

Spectrophotometric Investigation of the Nucleus of NGC 1068.

E. A. Dibai and V. I. Pronik 78 54

The Electron Temperature Gradient in Planetary Nebulae.

G. A. Gurzadyan..... 91 61

Continuous Formation and Rates of Development of Stars in Stellar

Associations. L. V. Mirzoyan..... 109 70

Brief Communications

On Two Blue Galaxies. K. A. Saakyan and R. G. Mnatsakanyan . 125 78

Two Extremely Blue Objects Near a D Galaxy. K. A. Saakyan ... 126 78

Single issue: \$35

Annual Subscription: \$90

© 1965 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not be reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

BYULLETEN' ÉKSPERI-
MENTAL'NOI
BIOLOGII I MEDITSINY
EDITORIAL BOARD

A. Ya. Alymov
V. N. Chernigovskii
S. Ya. Kaplanakii
G. N. Kryzhanovskii
(Secretary)
A. V. Lebedinskii
(Assistant Editor)
L. D. Liozner
I. N. Maiskii
V. A. Negovskii
V. V. Parin
(Editor)
V. A. Sanotskii
L. L. Shik
A. A. Solov'ev
N. N. Zhukov-Vereshnikov
(Assistant Editor)

BULLETIN OF EXPERIMENTAL BIOLOGY AND MEDICINE

A translation of BYULLETEN' ÉKSPERIMENTAL'NOI
BIOLOGII I MEDITSINY

A publication of the Academy of Medical Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 59, Number 5

May, 1965

CONTENTS

	PAGE	
	ENG.	RUSS.
PHYSIOLOGY		
An Intracellular Investigation of the Neurons of the Cerebral Cortex of the Unanesthetized Rabbit—L. L. Voronin and V. G. Skrebetskii	473	3
Localization of the Cortical Representation of the Splanchnic Nerve in the Dog—A. N. Sovetov.	478	7
Relationship between the Constant Polarization Potentials of Skeletal Muscle and the Level of Transection of the Brain and Spinal Cord in Frogs—L. A. Fadeeva.	480	9
Characteristics of Synaptic Delay in the Neuromuscular Apparatus of Dogs of Various Ages—T. A. Adzhimolaev.	483	12
Method for Assessment of State of Inhibitory Apparatus in Spinal Cord of Man—V. S. Gurfinkel', Ya. M. Kots, V. I. Krinskii, and M. L. Shik	486	15
Effects of CO ₂ and Hydrogen Ions on the Physical Electrotonus of Smooth Muscle—M. F. Shuba.	489	19
Some Reflexes of the Lesser Circulation—V. S. Kupriyanov.	493	22
PATHOLOGICAL PHYSIOLOGY AND GENERAL PATHOLOGY		
Significance of the Inhibitory Synapses in the Mechanism of Compensation for Impaired Function—S. I. Frankshtein, Z. G. Biyasheva, and L. N. Smolin.	497	27
Afferent Impulses from Cardiac Vagal Fibers in Myocardial Ischemia—A. E. Kuvaev	501	31
Structure of the Respiratory Cycle during Extinction and Restoration of Vital Functions—S. V. Tolova	505	35
Insulin Action in Experimental Atherosclerosis—L. A. Myasnikov	510	40
Effect of Extensive Small Bowel Resection on the Enzyme Secretory Function of the Stomach—B. I. Sabsai	512	42
BIOCHEMISTRY AND BIOPHYSICS		
The Effect of ACTH on the Plasma Level of Non-esterified Fatty Acids in Healthy Subjects and in Diabetic Patients—K. K. Heideman and T. H. Freimane.	516	48
Acid Phosphatase (Phosphomonoesterase II) Activity in Rat Brain during Traumatic Shock—L. F. Panchenko and A. I. Archakov	519	51

(Continued)

Annual Subscription \$95

Single Issue \$30

Single Article \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	P A G E	
	ENG.	RUSS.
PHARMACOLOGY		
The Role of Imidazole and Its Natural Compounds in the Functional Activity of the Muscles —S. E. Severin and G. A. Solov'eva	522	54
Effect of Various Indolylalkylamines on the Motor Cells of Mollusk Embryos and the Blood Vessels of the Rabbit Ear—G. A. Buznikov, P. G. Zhrebchenko, and I. V. Chudakova . . .	527	59
Pharmacologic Prevention of Fibrillation in Acute Cardiac Ischemia and Electrolyte Dynamics—N. K. Popova É. I. Ivashkevich	532	64
Experimental Data on the Action of a Number of Organophosphorous Compounds on the Motor Function of the Rabbit's Intestine—A. P. Gel'fer	535	67
Certain Characteristics of the Onset of Narcotic Sleep in the Frog during Inhalation of Ether Vapor Following Bilateral Severing of the Vagosympathetic Nerve Trunks —A. E. Alckseev	539	71
MICROBIOLOGY AND IMMUNOLOGY		
A Study of the Mutational Variability of <i>E. coli</i> K-12 λ Irradiated with Nuclear Particles in an IRT-1000 Reactor—L. I. Murav'eva	543	75
Stability of L-Forms of Bacteria to Ultraviolet Light—K. P. Shakhovskii	547	79
Some Properties of Cellular Yeast Extracts—N. P. Elinov and N. A. Zaikina	550	82
ONCOLOGY		
Cell Lines Produced from Tumors caused by Virus SV 40—V. N. Blumkin, V. I. Gavrilov, N. N. Vasil'eva, and R. G. Zmieva	552	85
Effect of Carcinogenic and Non-Carcinogenic Aminonitro Compounds on the Ultraviolet and Blue Fluorescence of Tadpole Liver Cells—V. M. Bresler, E. M. Brumberg, M. V. Kudryavtseva, E. M. Pil'shchik, N. A. Chernogryadskaya, and M. S. Shudel'.	557	89
EXPERIMENTAL BIOLOGY		
Changes in Regenerated and Normal Liver in Rats during the Lactation Period—V. F. Sidorova . .	561	93
DNA Content of the Corneal Epithelial Cells of Rats after X-Irradiation—M. N. Veselkina	565	95
Incorporation of H^3 -Thymidine in Cells of the Stratified Squamous Epithelium of Rats after X-Ray Irradiation—L. Ya. Zhorno	568	99
MORPHOLOGY AND PATHOMORPHOLOGY		
Changes in Neurons of Certain Regions of the Brain under the Influence of Nivaline —E. N. Popova and N. N. Bogolepov.	572	104
The State of the Pericellular Apparatus of Sympathetic Ganglia under Conditions of Chronic Lead Poisoning—V. P. Babmindra and G. N. Kus'minskaya	578	110
METHODS		
Automatic Device for Elaborating Conditioned Reflexes—N. K. Barkov and V. A. Krivopalov. .	582	114
A Method of Agar Microelectrophoresis for Studying Proteins in the Aqueous Humor of the Anterior Chamber of the Eye and Perilymph of the Internal Ear—Yu. S. Astakhov and M. S. Pluzhnikov	586	117
Experimental Study of Combined Electronarcosis by Pulse and Interference Currents —V. D. Zhukovskii.	590	120
NECROLOGY		
In Memory of A. Ya. Alymov.	593	124

The Russian date "Podpisano k pečati" of this issue was 4/9/1965 This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

DOKLADY AKADEMII
NAUK SSSR
EDITORIAL BOARD

L. A. Artsimovich
A. N. Frumkin.
(Assistant Editor)
B. A. Kazanskii
A. N. Kolmogorov
(Assistant Editor)
D. S. Korzhinskii
S. A. Lebedev
A. I. Oparin
(Editor-in-Chief)
E. N. Pavlovskii
L. I. Sedov
N. M. Strakhov
S. A. Vekshinskii

DOKLADY BIOLOGICAL SCIENCES

PROCEEDINGS of the
ACADEMY OF SCIENCES
of the USSR

A translation of DOKLADY AKADEMII NAUK SSSR
A publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 161, Numbers 1-6

March-April, 1965

CONTENTS

	RUSS. RUSS. PAGE ISSUE PAGE		
CYTOLOGY			
The Effect of Different Anti-Tumor Sera on the Ultrastructural Changes in the Cells of Geren's Carcinoma—Yu. A. Umanskii, V. G. Pinchuk, and B. D. Monastyrskaya. . .	147	1	221
Effect of Potassium, Sodium, and Chloride Ions on the Potential Difference Between the Medium and the Cytoplasm and Nucleus of the Salivary Gland Cells of Drosophila Larvae—V. F. Antonov, G. A. Kurella, I. F. Meshchishen, and Wu Pien-tsieh	150	3	691
Electron Microscope Investigation of the Transfer of Nuclear Products into the Cytoplasm in Spermatocytes of the Grain Mite—M. A. Monakhova and V. A. Getsova	155	4	949
Sensitivity of Various Periods of the Interphase to Disturbance of RNA Synthesis Induced by Auranfin—I. D. Belyaeva.	157	5	1205
Electron Microscopic Study of the Interrelations of the Nucleus and Cytoplasm—K. S. Abramyan and V. N. Reingol'd	160	6	1431
ECOLOGY			
Effect of Transportation Conditions on the Composition of the Blood of Young Humpback Reared in Murmansk Fish Farms—A. V. Belova	164	2	466
The Survival of Larvae of <i>Rapana thomasiana</i> Grosse in Waters of Different Salinities—A. I. Ivanov.	166	3	694
Gonad Development and Spawning Periods of the Arctic Cod in the Barents Sea—V. N. Ponomarenko	169	3	597
EMBRYOLOGY			
Development of Congenital Malformations—N. V. Popova-Latkina	173	2	493
Functional Morphology of the Intercalated Cells of Chick Embryo Chorio-Allantois—E. I. Skalinski	178	3	730
Incorporation of H^3 -Thymidine by the Nuclei of Mouse Embryo Cells in the Preimplantation and Implantation Periods of Development—N. A. Samoshkina	182	6	1467
	(Continued)		

Annual Subscription: \$75

Single Issue: \$15

Single Article: \$10

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
ENDOCRINOLOGY			
Microstructural and Functional Changes in the Thyroid in Avitaminosis C —G. V. Khomullo and G. A. Gribanov	187	1	253
Histogenesis in Spleen of Albino Rats Thymectomized in the Early Postnatal Period —A. I. Sludskaya	190	3	733
EXPERIMENTAL MORPHOLOGY			
The Study of the Local Action of Calcium Glycerophosphate and Sodium Fluoride on Experimental Dental Caries in Albino Rats—Yu. A. Fedorov	194	1	244
Degeneration of the Lateral Geniculate Bodies After Enucleation in Puppies and in Young Monkeys—I. I. Figurina	198	1	248
Effect of Antitumoral Compounds on the Regeneration of the Rat Liver—G. L. Zhdanov, I. B. Sorokina, and V. P. Mal'kova	202	5	1235
GENETICS			
Sequence of Replication of DNA in Segments of Large Chromosomes of Man —S. I. Slezinger and A. A. Prokof'eva-Bel'govskaya	205	2	459
Nucleic Acid Content of Pollen of Diploid and Tetraploid Sugar Beet—N. V. Turbin, V. E. Bormotov, V. K. Savchenko, and I. V. Matoshko	209	2	463
Spectra of Chromosome Mutations at Various Natural Mutation Levels of Cells —N. P. Dubinin, V. K. Shcherbakov, and G. N. Kesler	212	6	1434
HISTOLOGY			
Early Stages of Myocardial Changes in Experimental Orthostatic Collapse—B. M. Aréel . .	215	4	952
HYDROBIOLOGY			
A Microbiological Characterization of Chir-Yurt Reservoir—S. I. Kuznetsov, L. A. Aliverdieva, and V. I. Romanenko	219	2	469
MICROBIOLOGY			
Phospholipids of the Photosynthetic Green Thiobacteria <i>Chlorobium thiosulfatophilum</i> —V. D. Fedorov and G. A. Ionicheva	222	1	224
Effect of Oxidation-Reduction Potential on Transformation of Hydrocortisone by a Culture of <i>Mycobacterium globiforme</i> 193—G. K. Skryabin, I. S. Zvyagintseva, M. I. Nazaruk, and L. V. Sokolova	225	2	472
Bacterial Decomposition of Cholesterol Contained in Human Blood Serum —A. A. Imshenetskiĭ, E. F. Efimochkina, L. E. Nikitin, and V. A. Zanin	228	3	701
Antiviral Activity of Quaternary Salts of 4-p-Dialkylaminophenylpyridines and Chlorocopper Complexes of Pyridine Bases of Coal Resin—E. S. Cherkasskiĭ, L. R. Kolomeitsev, A. K. Sheinkman, and I. T. Korneeva	231	5	1208
Quantitative Dependence Between the Concentration of Metabolic Products and the Growth Rate of Microorganisms—N. D. Ierusalimskii and N. M. Neronova . .	235	6	1437
Lysogenic Conversions of Citrate Resistance in <i>Act. venezuelae</i> —Ya. I. Rautenshtein and N. P. Fedeeva	239	6	1441
MORPHOLOGY			
Afferent Neurons of Autonomic Nervous System—N. G. Kolosov	242	2	490
Dendrosomatic Contacts in Autonomic Ganglia—V. P. Babmindra and I. Khamori	245	3	728
Connection Between Changes in the Blood Vessels and Lymphatics of the Liver in Experimental Portal Hypertension and Annular Cirrhosis of the Organ —E. V. Kapustina	248	4	982

(Continued)

Available From Consultants Bureau

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
PHYSIOLOGY			
Investigation of the Carbohydrate Components of the Mucopolysaccharides of the Wall of the Aorta in the Process of Development of Atherosclerosis—E. P. Stepanyan, V. B. Lysenko, and G. Grigor'yan	253	1	251
Relationship Between the Duration of the Phases of the Cardiac Cycle and the Rate of Change of the Pressure in the Right and Left Ventricles—E. B. Bab'skii, V. S. Sal'manovich, and I. L. Kosharskaya	255	4	986
Effect of Partial and Complete Exclusion of the Cerebral Cortex on Echo Ranging in Bats—A. I. Konstantinov	258	4	989
Electrical Activity, on Injection of NaCl, in Rabbit Cortex After Destruction of Motor and Posterior Limbic Regions—N. E. Vasilevskaya and G. P. Udalova.	260	5	1238
Reactions of Single Neurons in Optic Lobes of Frog Brain to Change in Length of Photostimulation—L. I. Mkrtycheva and V. G. Samsonova.	264	5	1242
Rate of Entry and Distribution of Antigens in the Tissues of Fish (<i>Rutilus rutilus</i> L.)—V. I. Luk'yanenko and Yu. I. Sorokin	268	5	1246
ZOOLOGY			
The Relationship Between the Size of the Body of the Female and the Size and Number of Eggs in Harpacticoida (Crustacea, Copepoda)—L. L. Chislenko . . .	271	3	724

The Russian press dates (podpisano k pečati) of the first and last issues covered in this issue of the translation were, respectively, 2/22/1965 and 4/16/1965. Publication of the material translated in this issue therefore is known to have occurred not prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after this date and ending shortly after the later date.

Publisher

Available From Consultants Bureau

DOKLADY AKADEMII
NAUK SSSR

EDITORIAL BOARD

L. A. Artsimovich
A. N. Frumkin
B. A. Kazanskii
A. N. Kolmogorov
(Assistant Editor)
D. S. Korzhinskii
S. A. Lebedev
A. I. Oparin
(Editor-in-Chief)
A. V. Peiva
L. I. Sedov
N. M. Strakhov
S. A. Vekshinskii
A. L. Yanshin

DOKLADY
BOTANICAL
SCIENCES

PROCEEDINGS of the
ACADEMY OF SCIENCES
of the USSR

A translation of DOKLADY AKADEMII NAUK SSSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volumes 160-162

January-June, 1965

CONTENTS

	PAGE	RUSS. ISSUE	RUSS. PAGE
VOLUME 160			
BOTANY			
The Toxicity of Blue-Green Algae—M. M. Telitchenko and M. V. Gusev.	1	6	1424
PHYTOPATHOLOGY			
On the Role of Peripheral Tissues of Potato Tubers in Formation of Necroses Following Infection by <i>Phytophthora infestans</i> —V. E. Sokolova and N. I. Vesnyukova	3	3	724
Antifungal Effect of Phenol Compounds Formed in Injured Potato Tubers —L. V. Metlitskii, O. L. Ozeretskovskaya, G. I. Chalenko, and G. A. Strokova. . .	7	4	964
PLANT PHYSIOLOGY			
Influence of Photochemical Induction on the Dark Fixation of $C^{14}O_2$ by Potato Leaves —A. T. Mokronosov and R. I. Bagautdinova	11	1	227
Influence of Weather Conditions on the Fatty Acid Composition of Linseed Oil During Successive Generations—G. V. Novitskaya, A. V. Kaverina, and A. G. Vereshchagin	14	1	230
On the Dark Biosynthesis of Chlorophyll B in a Homogenate—A. A. Shlyk and I. V. Prudnikova	16	3	720
Action Potential of <i>Nitella flexilis</i> Cells Filled with Artificial Salt Solution —I. I. Gunar, A. M. Sinyukhin, and I. A. Ozolina	20	4	956
New Growth-Stimulating Substances—G. P. Kugatova-Shemyakina, V. A. Rudenko, G. P. Smirnova, A. I. Grechushnikov, L. M. Mishurovskaya, and D. A. Agakishiev.	24	4	960
On the Biosynthesis of Pigments in Certain Evergreen Plants at Negative Temperatures —T. N. Godnev and É. V. Khodasevich.	28	5	1206
Variations of the Carotenoid:Chlorophyll Ratio in Blue-Green Algae During Their Utilization of Organic Substances—M. V. Gusev and E. I. Vasil'kova.	31	5	1209
The Distribution of Zinc Between the Cell Sap and the Remaining Cell Contents in Tomato Leaves—A. V. Kositsyn.	34	5	1212
On the Physiological-Biochemical Causes of the Selective Action of the Herbicide Simazin (2-Chloro-4, 6-bisethylamino-sym-triazine)—P. V. Saburova and A. A. Petunova	37	5	1215

(Continued)

Annual Subscription: \$50

Single Issue: \$15

Single Article: \$7.50

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York, N. Y. 10011, U.S.A.

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
On the Biosynthesis of Chlorophyll in the Red and Near Infrared Regions—S. I. Lebedev and L. G. Litvinenko	41	6	1427
VOLUME 161			
PHYTOPATHOLOGY			
Pectolytic Enzymes of Fungi Causing Fruit Rot—E. G. Sal'kova and Ngo Ke-Syong . . .	47	1	241
PLANT PHYSIOLOGY			
Effect of Certain Amino Acids on Accelerated Maturation of Cotton —V. F. Gerasimova	50	2	487
The Survival of Winter Wheat at -195° as a Result of Vitrification—I. I. Tumanov, O. A. Krasavtsev and T. I. Trunova	53	4	978
Intermediate Photosynthetic Products from a Synchronous Culture of <i>Chlorella</i> <i>pyrenoidosa</i> in Different Stages of Development—R. Ya. Shkol'nik, N. G. Doman, K. S. Spektorov, and E. A. Lin'kova	57	5	1231
Influence of Zinc and Vitamins B ₁ and B ₆ on the Incorporation of C ¹⁴ -Tyrosine into Proteins—M. Ya. Shkol'nik and V. N. Davydova	61	6	1465
VOLUME 162			
BOTANY			
The Phenomenon of Amphomorphism in Mosses—A. S. Lazarenko	67	4	962
The Taxonomy and Biochemistry of Certain Species of <i>Cachrys</i> L. emend. Koch— I. G. Zoz, N. F. Komissarenko, V. T. Chernobai, and D. G. Kolesnikov . . .	70	6	1423
PLANT EMBRYOLOGY			
The Investigation of Pollen Tubes in Angiosperms—V. A. Poddubnaya-Amol'di	74	3	705
PLANT PHYSIOLOGY			
Disorganization of Energy Metabolism in the Roots During Potassium Starvation —A. Kumanov, É. Vyskrebentseva, I. Sveshnikova, and M. Krasavina	77	1	211
Change in the Composition of Proteins of Bean Seeds as a Function of the Conditions of Nutrition—Fam Suan Khai and B. P. Pleshkov	82	1	215
Natural Growth Substances of Willow Leaves and Buds—V. I. Kefeli	86	2	462
Influence of Boron and Manganese on the Dynamics of the Translocation and Distribution of Glucose-C ¹⁴ in the Plant—V. S. Saakov	89	2	465
Effect of 2,4-Dinitrophenol on the Absorption of Oxygen in the Light and in Darkness by Leaves of Cocklebur and Rudbeckia—N. P. Alsenova	92	5	1194
On the Synthesis of Mg-Porphyrins in Isolated Roots—V. F. Gavrilenko and B. A. Rubin .	96	6	1427
On Coefficients of Brightness of Leaves in Natural and Polarized Light —I. A. Shul'gin and Kh. A. Moldau	99	6	1430

The Russian press dates (podpisano k pechatu) of the first and last issues covered in this issue of the translation were, respectively, 1/1/1965 and 6/12/1965. Publication of the material translated in this issue therefore is known to have occurred prior to the earlier of these dates, but must be assumed to have taken place at intervals starting reasonably soon after this date and ending shortly after the later date.

Publisher

Available From Consultants Bureau

SOVIET MATHEMATICS

Доклады Академии Наук СССР

Tom 164 Nos. 1-6, 1965

Vol. 6, No. 5

September-October, 1965

TABLE OF CONTENTS

	Russian page nos.	Page
Arhangel'skiĭ, A. <i>A condition for preservation of metrizable under quotient mappings</i>	(9-12)	1127
Baranovskii, E. P. <i>Local density minima of a lattice covering of a four-dimensional Euclidean space by equal spheres</i>	(13-15)	1131
Gabasov, R. and Kirillova, F. M. <i>A statistical problem of optimal control of a linear system</i>	(16-19)	1134
Dem'janovič, Ju. K. <i>The stability of the net method for elliptic problems</i>	(20-23)	1138
Džabrailov, A. D. <i>On the direct and inverse imbedding theorems of weight spaces</i>	(24-27)	1142
Dmitriev, Ju. A. <i>Frequency conditions for the dissipativity and for the existence of periodic solutions in sampled-data systems with one nonlinear block</i>	(28-31)	1147
Žigulin, I. A. <i>Certain invariants of the group of triangular-unit matrices in a space adjoint to the space of its Lie algebra</i>	(32-35)	1151
Korenbljum, B. I. <i>Quasianalytic classes of functions in a circle</i>	(36-39)	1155
Leont'ev, A. F. <i>Representation of arbitrary functions by Dirichlet series</i>	(40-42)	1159
Musojan, V. H. <i>Representation of an arbitrary analytic function by special series</i>	(43-46)	1162
Plamenevskii, B. A. <i>Singular integral operators on a group</i>	(47-50)	1166
Raĭcin, R. A. <i>Best approximation of the functions $(x-c)^{r-1} x-c ^{1+\alpha}$ by polynomials in the $L_q(-1, 1)$ ($q \geq 1$) space metric</i>	(51-53)	1171
Sobolev, S. L. <i>A difference analogue of the polyharmonic equation</i>	(54-57)	1174
Fomin, V. N. <i>Parametric resonance of elastic systems with distributed parameters</i>	(58-61)	1179
Ševčenko, R. F. <i>On the trace of a differential operator</i>	(62-65)	1183
Arhangel'skiĭ, A. <i>Behavior of metrizable under factor mappings</i>	(247-250)	1187
Berman, D. L. <i>The interpolation process of S. N. Bernšteĭn in the complex domain</i>	(251-254)	1191
Bredihina, E. A. <i>Approximation of Stepanov's almost periodic functions</i>	(255-258)	1196
Veksler, A. I. <i>Structural orderability of algebras and rings</i>	(259-262)	1201
Dmitriev, Ju. A. <i>Frequency conditions for absolute stability of sampled-data automatic control systems with one nonlinear element</i>	(263-266)	1205
Kagan, A. M. and Sudakov, V. N. <i>The structure of the complete class of unbiased estimates for families of distributions of a special type</i>	(267-269)	1209
Komlenko, Ju. V. <i>Some criteria for nonoscillation and boundedness of solutions of linear differential equations</i>	(270-272)	1212
Ljubič, Ju. I. and Tkečenko, V. A. <i>Uniqueness and approximation theorems for a local Laplace transformation</i>	(273-276)	1216

(Continued)

Available From The American Mathematical Society

DOKLADY AKADEMII NAUK SSSR, MATHEMATICAL SECTION
Vol. CLXIV, No 1-6, 1965

	Russian page nos.	Page
Rogožin, V. S. <i>A general scheme of solution of boundary value problems in the space of generalized functions</i>	(277-280)	1221
Sobolev, S. L. <i>Optimal mechanical cubature formulas with interpolation points on a regular grid</i>	(281-284)	1226
Suetin, P. K. <i>Some asymptotic properties of orthogonal polynomials in a complex region</i>	(285-288)	1230
Volkov, E. A. <i>Solution of the Dirichlet problem by the method of refining with higher-order differences</i>	(479-482)	1234
Hedrlín, Z. <i>Commutative systems as generalized semigroups</i>	(483-486)	1238
Gečec, F. I. <i>Properties of the growth of entire functions of several complex variables</i>	(487-490)	1242
Il'in, A. M. <i>Stability of difference schemes for the Cauchy problem for systems of partial differential equations</i>	(491-494)	1247
Mitjuk, I. P. <i>Some properties of functions regular in a multiply connected region</i>	(495-498)	1252
Mihailov, V. P. <i>The behavior of certain classes of polynomials at infinity</i> ...	(499-502)	1256
Nikol'skii, Ju. S. <i>Boundary values of functions from weight classes</i>	(503-506)	1260
Tihonov, A. N. <i>Improper problems of optimal planning and stable methods for their solution</i>	(507-510)	1264
Čencov, N. N. <i>The categories of mathematical statistics</i>	(511-514)	1268
Borevič, Z. I. and Faddeev, D. K. <i>A note on orders with cyclic index</i>	(727-728)	1273
Vizing, V. G. <i>Estimate of the number of external stability of a graph</i>	(729-731)	1275
Gohberg, I. C. and Kreĭn, M. G. <i>Multiplicative representation of the characteristic functions of operators close to unitary</i>	(732-735)	1279
Zorič, V. <i>Determination of boundary elements by means of sections</i>	(736-739)	1284
Lemlein, V. G. <i>A property of alternative quasigroups with an invariant finite measure</i>	(740-742)	1288
Protasov, V. I. <i>The Cauchy problem for a linear differential equation of infinite order</i>	(743-745)	1291
Semenov, E. M. <i>Interpolation of linear operators in symmetric spaces</i>	(746-749)	1294
Uspenskii, S. V. <i>Boundary properties of a class of differentiable functions in smooth regions</i>	(750-752)	1299
Janušauskas, A. <i>On the problem of the oblique derivative</i>	(753-756)	1303
Aranson, S. H. <i>Systems of first degree of nonroughness on a torus</i>	(959-962)	1307
Dezin, A. A. <i>On the theory of operators of the form $\frac{d}{dt} - A$</i>	(963-966)	1311
Efimov, B. <i>On the power of Hausdorff spaces</i>	(967-970)	1315
Zěinalov, B. A. <i>Properties of the determinant of matrices commutable with similar integer matrices, and certain applications of these properties</i>	(971-974)	1319
Kac, I. S. <i>Some cases of uniqueness of the solution of the inverse problem for strings with a boundary condition at the singular end</i>	(975-978)	1324
Kovalenko, I. N. <i>Reconstruction of the characteristics of a system through observations on the outflow</i>	(979-981)	1328
Monahov, V. N. <i>Unique solvability of two-dimensional problems of gas dynamics with free boundaries</i>	(982-984)	1332
Osmateacu, P. K. <i>Extension of perfect mappings to $\omega\alpha$-compactifications</i>	(985-988)	1336

(Continued)

Available From The American Mathematical Society

DOKLADY AKADEMII NAUK SSSR, MATHEMATICAL SECTION
Vol CLXIV, No 1-6, 1965

	Russian page nos.	Page
Rutman, M. A. <i>Integral representation of functions forming a Markov series ..</i>	(989-992)	1340
Badaljan, G. V. <i>On a problem in the theory of Watson transforms</i>	(1215-1217)	1344
Bicadze, A. V. <i>Normally solvable elliptic boundary value problems</i>	(1218-1220)	1347
Geĭsberg, S. P. <i>Quasianalytic functions in $L(-\infty, \infty)$</i>	(1221-1224)	1350
Zelenjak, T. I. <i>Boundary-dependence of the solutions of certain mixed problems for small oscillations of a rotating fluid</i>	(1225-1228)	1354
Korbut, A. A. <i>Extremal spaces</i>	(1229-1231)	1358
Lavrik, A. F. <i>The problem of divisors in segments of arithmetical progressions</i>	(1232-1234)	1362
Lokucievskii, O. V. <i>On the topology of continua</i>	(1235-1238)	1365
Mamedov, Ja. D. <i>The Cauchy limit problem for differential equations of first and second order with unbounded nonlinear potential operators</i>	(1239-1242)	1369
Taĭclin, M. A. <i>On the elementary theory of classical Lie algebras</i>	(1243-1245)	1373
Table of contents for the next issue (Vol. 6, no. 6, November-December, 1965) Russian original Tom 165, nos. 1-6		1376-a

ERRATA

The following corrections are translated from pages 246, 958 and 1214 of Tom 164:

Letter to the Editors

In my article *On densely imbedded ideals of semigroups*, Vol. 1 (1960), 348-351 (Russian pages Tom 131, 765-768), in the proof of the theorem on p. 348 (Russian p. 766) there is a mistake: in the proof of Lemma 3 the equations $K_{\alpha\beta}a_{\gamma} = a_{\tau(\alpha,\gamma)}$ and $a_{\beta}K_{\gamma\delta} = a_{\tau(\beta,\delta)}$ are valid only under the condition that certain complexes $K_{\xi\gamma}$ and $K_{\beta\eta}$ are not empty, which generally speaking it is impossible to guarantee.

This deficiency can easily be removed, and moreover, essentially within the framework of the same construction. Namely, retaining the notation of the article we construct a semigroup $S = \{T, b\}$, in which, along with all the defining relations satisfied in T , we require that the following defining relations be satisfied: $b^2 = a_1 \cdot b0 = 0$; for any $t_1, t_2 \in T$, $bt_1b = t_1bt_2 = 0$, and finally $bt_1 = bt_2$ ($t_1b = t_2b$) if and only if $at_1 = at_2$ ($t_1a = t_2a$). It is easy to see in addition that no "gluing together" takes place in T and besides, T is strictly contained in S , since in every case $b \in S \setminus T$. From the fact that N is an ideal in T and $bN = Nb = 0$, it follows that N is an ideal in S . Further, we prove that every true homomorphism ϕ of the semigroup S induces a true homomorphism of N . Let $\phi x = \phi y$, $x \neq y$, $x, y \in S$. Clearly, we need to examine only the case when one of the elements x, y does not belong to T ; without loss of generality, we assume that $x \in \bar{T}$. The proof that ϕ induces a true homomorphism of T (and consequently, also of N) emerges almost as a word for word repetition of the last part of the proof of the theorem of the note. We take as an example one of the possible cases $x = bt$, $t \in T$ (in the other cases $x = b$ and $x = tb$ the calculations also proceed in the same way as the corresponding calculations of the note). First of all, we note that by virtue of the defining relations, $at \neq 0$: from $at = 0 = a0$ it follows that $bt = b0 = 0 \in T$. The following equalities are valid:

$$\phi at = \phi by, \quad (1)$$

$$\phi ay = \phi 0. \quad (2)$$

Available From The American Mathematical Society

Soviet Physics DOKLADY

A Translation of the "Physics Sections" of the Proceedings of the
Academy of Sciences of the USSR

(Russian Original Vol. 163, Nos. 4-6, August, 1965)

Vol. 10, No. 8, pp. 691-800

February, 1966

CONTENTS

	PAGE	RUSS. ISSUE	RUSS. PAGE
AERODYNAMICS			
Temperature Differences at Surfaces in Polyatomic Gases. <u>E. V. Stupochenko</u>	(T) 691	4	849
Experimental Investigation of Mach Reflection of Shock Waves with Velocities of 1000-3000 m/sec in Carbon Dioxide Gas, Nitrogen, and Air. <u>L. G. Gvozdeva and O. A. Predvoditeleva</u>	(E) 694	5	1088
The Calculation of Three-Dimensional Supersonic Gas Flow by the Method of Characteristics. <u>Yu. N. Podladchikov</u>	(T) 698	5	1092
CRYSTALLOGRAPHY			
The Algebra of Irreducible Cubic Tensors. <u>D. T. Sviridov and Yu. F. Smirnov</u>	(T) 701	5	1138
CYBERNETICS AND CONTROL THEORY			
An Addressing Method Using Condensed Word Codes as Memory Addresses. <u>K. I. Kurbakov</u>	(T) 704	4	841
Binary Codes Capable of Correcting Deletions, Insertions, and Reversals. <u>V. I. Levenshtein</u>	(T) 707	4	845
Parallel Decoding. <u>B. S. Fleishman</u>	(T) 711	6	1331
FLUID MECHANICS			
Experimental Investigation of Turbulent Flow of an Electrically-Conducting Liquid in a Tube in a Longitudinal Magnetic Field. <u>D. S. Kovner</u> and <u>E. Yu. Krasil'nikov</u>	(E) 714	5	1096
MATHEMATICAL PHYSICS			
Shortwave Asymptotic Behavior of the Eigenfunctions of the Helmholtz Equation. <u>V. S. Buldyrev</u>	(T) 718	4	853
Solving the Kinetic Transfer Equation by the Separation Method. <u>G. I. Marchuk</u> and <u>U. M. Sultangazin</u>	(T) 721	4	857
The Cauchy Problem for the Linearized Boltzmann Equation. <u>A. A. Arsen'ev</u>	(T) 725	5	1104
The Numerical Solution of the Equations of Heat Conduction and Gas Dynamics by Partitioning into Subregions. <u>V. L. Zaguskin and V. E. Kondrashov</u>	(T) 727	5	1107
Concerning the Nonuniqueness of the Stationary Solutions of the System of Equations of Combustion Theory when the Rate Constant and the Coefficients of Thermal Conduction and Diffusion are Piecewise Constant. <u>R. D. Bachelis and V. G. Melamed</u>	(T) 730	6	1338
MECHANICS			
Lower Stability of the Biaxial Gyroscopic Stabilizer as Compared with the Uniaxial Stabilizer. <u>A. Yu. Ishlinskii</u>	(E/T) 734	6	1334

Copyright © 1966 by the American Institute of Physics, Incorporated

Available From American Institute of Physics
Vol. X, No. 8, Feb 1966

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
PHYSICS			
Some Relations Between Physical Constants. Robert Orosdi Bertini . . .	(T) 737	4	861
Zeolites as a Means of Minimizing Hydrocarbon Contamination in Electron Microscopes. G. I. S. Zhdanov and V. N. Vertsner	(E) 741	4	865
Energy Band-Structure of Some Crystals Belonging to the $Al^{II}B^{IV}C^{IV}_2$ Group. F. P. Kesarmaly, S. G. Krotoru, Yu. V. Rud', V. V. Sobolev, and N. N. Syrbu	(T) 743	4	868
Maser Action by a Crystal Moving in a Resonator. B. L. Livshits and V. N. Tsikunov	(T) 745	4	870
Motion of a Charged Particle in the Theory of Gravitation. V. S. Brezhnev . .	(T) 748	5	1110
Source of the Additional Emission Peaks from a Pulse Discharge in Neon. K. S. Vul'fson, I. Sh. Libin, and A. Sh. Chernyak	(E) 750	5	1113
Possible Imitations of the Decay $K^0_L \rightarrow \pi^+ + \pi^-$. E. Okonov and Wu Tsung-Fan	(T) 752	5	1115
Coulomb Interaction of Electrons in Thin Films. N. S. Rytova	(T) 754	5	1118
Generation of the R_2 -Line of Ruby in a Cavity with Dispersion. V. L. Broude, O. N. Pogorelyi, and M. S. Soskin	(E) 756	6	1342
Emission from an Excited Molecule in a Resonant Medium. Yu. A. Vdovin . .	(T) 758	6	1344
Calculation of the Imaginary Part of Phase Shifts for Elastic pp-Scattering at 655 MeV. V. G. Vovchenko	(E/T) 761	6	1348
Optical Parameters of Polyvalent Metals and Electronic Interactions. V. I. Ginzburg, G. P. Motulevich, and L. P. Pitaevskii	(E/T) 765	6	1352
Characteristic Temperature of Suspensions. L. A. Dikarev	(E) 768	6	1356
Number of Quanta as an Invariant of the Classical Electromagnetic Field. Ya. B. Zel'dovich	(T) 771	6	1359
Verification of the Kramers-Kronig Relationships in the Vibrational Part of the Spectrum. M. P. Lisitsa, V. L. Strizhevskii, N. A. Sugakova, and Yu. P. Tsyashchenko	(T) 773	6	1361
Focussing of Cold Quasineutral Beams in Electromagnetic Fields. A. I. Morozov	(T) 775	6	1363
Low-Temperature Polarization Spectra of Porphine Derivatives. A. N. Sevchenko, K. N. Solov'ev, V. A. Mashenkov, and S. F. Shkirman .	(E) 778	6	1367
TECHNICAL PHYSICS			
Pulse Methods of Examining the Parameters of Superconducting Alloys. N. E. Alekseevskii, A. V. Dubrovin, and V. S. Egorov	(E) 781	5	1121
Transmission of a Fabry-Perot Interferometer with Mirrors in the Form of Metal Grids. V. Ya. Balakhanov	(T/E) 783	"	1124
Donor Properties of Nitrogen Introduced into Silicon and Germanium by Ion Bombardment. P. V. Pavlov, E. I. Zorin, D. I. Tetel'baum, and Yu. S. Popov	(E) 786	5	1128
Properties of a Fabry-Perot Interferometer with Mirrors in the Form of a Backed Metal Grid. V. Ya. Balakhanov	(T) 788	6	1371
Distribution and Density of Etch Figures in Aluminum. A. A. Bocharov and Yu. P. Pshenichnov	(E) 791	6	1375
THEORY OF ELASTICITY			
Flutter of a Circular Conical Shell Made Up of Three Layers. E. I. Grigolyuk and A. P. Mikhailov	(T) 793	6	1100

Available From American Institute of Physics
Vol I, No 8, Feb 1966

Soviet Physics DOKLADY

A Translation of the "Physics Sections" of the Proceedings of the
Academy of Sciences of the USSR

(Russian Original Vol. 164, Nos. 1-3, September, 1965)

Vol. 10, No. 9, 801-884

March, 1966

CONTENTS

	PAGE	RUSS. ISSUE	RUSS. PAGE
AERODYNAMICS			
Laws of the Development and Stabilization of Aerodynamic Perturbations. <u>V. V. Struminskii</u>	(T) 801	1	66
ASTRONOMY			
A Mechanism for the Instability of Pulsating Stars. <u>Yu. V. Vandakurov</u>	(T) 805	3	525
CRYSTALLOGRAPHY			
Crystal Structure of Inderborite. <u>E. N. Kurkutova, I. M. Rumanova,</u> <u>and N. V. Belov</u>	(E) 808	1	90
Use of a Supervoltage Electron Microscope to Examine Single-Crystal Whiskers of Beryllium Oxide. <u>P. P. Budnikov, N. M. Popov,</u> <u>and D. B. Sandulov</u>	(E) 811	2	323
CYBERNETICS AND CONTROL THEORY			
Criteria for Representability of Events in Finite Probabilistic Automata. <u>R. G. Bukharaev</u>	(T) 814	2	289
Automata Which Predict a Random Process. <u>A. S. Kholevo</u>	(T) 816	3	515
FLUID MECHANICS			
Two-Dimensional Potential Flow with Stationary Streamlines. <u>V. A. Suchkov</u>	(T) 819	2	292
MATHEMATICAL PHYSICS			
Solution of the Dirichlet Problem for a Finite Wedge by Means of Special Integral Transforms Using Bessel Functions. <u>Ya. S. Uflyand</u> <u>and E. A. Yushkova</u>	(T) 821	1	70
MECHANICS			
The Energy-Momentum Tensor and Macroscopic Internal Interactions in a Gravitational Field and in Material Media. <u>L. I. Sedov</u>	(T) 824	3	519
PHYSICS			
Cadmium Telluride Laser with Electron Excitation. <u>V. S. Vavilov</u> <u>and É. L. Nolle</u>	(E) 827	1	73
Illumination of a Bubble Chamber Using a Ruby Laser. <u>V. M. Gorbunkov,</u> <u>V. V. Korobkin, and A. M. Leontovich</u>	(E) 829	1	75
Continuous Operation of a GaAs Injection Laser Cooled by a Flow of Gaseous Helium. <u>M. N. Zargar'yants, A. A. Kiselev, O. D. Kropotova,</u> <u>L. N. Kurbatov, Yu. M. Lyustrov, V. V. Sigriyanskii, I. I. Taubkin,</u> <u>and I. P. Shestopalova</u>	(E) 832	1	78

(Continued)

Copyright © 1966 by the American Institute of Physics, Incorporated

CONTENTS (continued)

	PAGE	RUSS. ISSUE	RUSS. PAGE
A Similarity Parameter in the Theory of Plasma Flow. <u>A. I. Morozov</u> and <u>L. S. Solov'ev</u>	(T) 834	1	80
A Quasi-One-Particle Approximation in the Coulomb Many-Particle Problem. <u>G. L. Krasko</u>	(T) 837	2	298
An Integral Representation for the Two-Particle Amplitude in the Nonrelativistic Case. <u>M. A. Mestvirishvili</u>	(T) 840	2	301
Microphotobattery or Photocell? <u>É. I. Adirovich, V. M. Rubinov,</u> and <u>Yu. M. Yuabov</u>	(T/E) 844	3	529
Effects of Electric Fields, Illumination, and Adsorbed Molecules on the Spectrum for the Photo-EMF in TlI, AgBr, and ZnO. <u>I. A. Akimov</u>	(E) 847	3	533
A Statistical Operator for Nonstationary Processes. <u>D. N. Zubarev</u>	(T) 850	3	537
Changes in the Strength of Some Substance as the Result of Polymorphic Transformation Under Pressure. <u>L. D. Livshits,</u> <u>B. I. Beresnev, Yu. S. Genshaft, and Yu. N. Ryabinin</u>	(E) 853	3	541
Relation Between Absorption Lines and Bands in the X-Ray Spectra of Atoms in Polar Crystals. <u>L. N. Mazalov, É. E. Vainshtein,</u> and <u>V. G. Zyryanov</u>	(E/T) 857	3	545
TECHNICAL PHYSICS			
Structure Change in Spheroidal Graphite During Thermal Cycling of Cast Iron. <u>A. A. Baranov, K. P. Bunin, and É. D. Glebova</u>	(E) 861	1	84
Effect of an Ultrasonic Field on the Strength of Metals and Alloys in the Presence of a Liquid-Metal Medium. <u>P. D. Novokreshchenov</u> and <u>V. P. Ryazanskii</u>	(E) 863	1	86
Growth of Deformation Twins. <u>A. A. Bochvar, Yu. P. Pshenichnov,</u> and <u>I. N. Chuvillina</u>	(E) 866	2	305
Changes in the Physical Properties of Metal Compounds During the Transformation from the Brittle to the Ductile State. <u>I. I. Novikov</u> and <u>D. P. Shashkov</u>	(T/E) 869	2	307
Improving the Efficiency of Ultrasonic Cutting. <u>L. D. Rozenberg,</u> <u>V. F. Kazantsev, and B. Kh. Mechetner</u>	(E) 872	2	311
Defects in the Structure of Fused Quartz. <u>A. A. Gorbachev</u>	(E) 875	3	549
THEORY OF ELASTICITY			
Some Plane Thermoelasticity Problems Concerning Periodic Thermal Action. <u>B. G. Korenev</u>	(T) 877	2	294
Critical External Pressure on an Ellipsoidal Bottom of a Cylindrical Reservoir. <u>A. V. Pogorelov</u>	(T) 880	3	523

Available From American Institute of Physics
Vol. I, No 9, March 1966

DOKLADY SOIL SCIENCE

A SUPPLEMENT TO

SOVIET SOIL SCIENCE

A translation of selected articles from the Russian Journals:

DOKLADY AKADEMII NAUK SSSR, Volumes 154, 156 and 158, 1964

NAUCHNYYE DOKLADY VYSSHEY SHKOLY, BIOLOGICHESKIYE,
NAUKI, 1963 and 1964

VESTNIK MOSKOVSKOGO UNIVERSITETA, SERIYA VI, BIOLOGIYA,
POCHVOVEDENIYE, 1963 and 1964

No. 13, 1964

Translation printed: December 1965

CONTENTS

	Page
SOIL GENESIS AND GEOGRAPHY	
STRUCTURE OF MOIST TROPICAL SOILS (NORTH VIETNAM), by V. M. Fridland, K. Ya. Dorokhova, and A. I. Zhitkov	1351
SOILS OF THE SOUTHWESTERN PART OF THE ARABIAN PENINSULA, by L. R. Asmayev.	1354
SOILS OF THE NILE VALLEY IN ITS LOWER REACHES, by G. Fakhmi	1360
LATERITE AND LATERIZATION, by B. G. Rozanov	1367
BROWN FOREST SOILS IN SOUTHERN SMOLENSK OBLAST, by T. I. Yevdokimova and N. P. Chizhikova.,	1372
SOILS OF THE MOUNTAINOUS SUBTROPICS AND HIGH MOUNTAINS OF BURMA, by B. G. Rozanov and I. M. Rozanova.	1376
COMPARISON OF THE ORGANIC MATTER IN CHESTNUT AND SOLONETZ SOILS OF THE TRANSVOLGA REGION, by P. Ye. Solov'yev and R. N. Tyulina-Zeynalashvili.	1382
CHEMICAL AND MINERALOGICAL COMPOSITION OF THE CLAY FRACTION OF GRAY FOREST SOILS IN KALUGA OBLAST, by B. P. Gradusov and I. S. Urusevskaya	1388
SOIL CHEMISTRY, MINERALOGY, AND AGROCHEMISTRY	
DETERMINATION OF THE DEGREE OF DISINTEGRATION OF CLAY MINERALS DURING PODZOL FORMATION, by P. G. Verbitskiy and A. I. Pantyukhin ...	1396
SEASONAL DYNAMICS OF THE OXIDATION-REDUCTION POTENTIAL AND OF ACID-SOLUBLE IRON (Fe^{3+} AND Fe^{2+}) IN SOD-PODZOLIC SOILS, by N. G. Zyrin and N. M. Grindel'.	1400
DISTRIBUTION OF MICROELEMENTS (Cu, Zn, Co, Ni, Mn, Sr) AND OF SOME MACROELEMENTS (Si, Fe, Al, Ca, Mg) BETWEEN THE ROOTS AND TOPS OF PLANTS IN RELATION TO THE PHASE OF DEVELOPMENT, by G. P. Bondarenko	1405
	(Continued)

Available From Soil Science Society of America

DOKLADY SOIL SCIENCE
No 13, 1964

	Page
SOIL BIOCHEMISTRY AND BIOLOGY	
SOIL DEHYDROGENASES, by A. Sh. Galstyan.	1416
COMPOSITION OF HUMUS IN THE SOILS OF THE NILE VALLEY, by G.R. Fakhmi.	1418
DISTRIBUTION OF NITROGEN IN SOIL ORGANIC MATTER FRACTIONS, by M. F. Ovchinnikova and D. S. Orlov.	1426
YEASTS IN THE SOILS OF SOME REGIONS OF THE PAMIRS, by I. P. Bab'yeva. . .	1434
OPTICAL PROPERTIES AND ELEMENTARY COMPOSITION OF FULVIC ACIDS OF VARIOUS ORIGIN, by D. S. Orlov and V. T. Zub.	1439
SOIL PHYSICS AND HYDROLOGY	
CHARACTER OF THE ULTRAPOROUS FRACTIONS OF TEXTURAL ELEMENTS IN THE SOIL COMPLEX OF THE LIGHT-CHESTNUT SUBZONE, by A. D. Voronin.	1445
STRUCTURE OF SOD-MEADOW SOILS IN THE MOSKVA RIVER FLOODPLAIN, by L. A. Grishina.	1448
EVAPORATIVITY OF SOILS OF THE LIGHT-CHESTNUT COMPLEX, by Yang Pen-Chih.	1455
CHANGE OF SOME PROPERTIES OF LIGHT-CHESTNUT COARSE CLAY LOAM SOIL UNDER THE EFFECT OF FOREST BELT PLANTATIONS, by L. B. Borovinskaya.	1465

Available From Soil Science Society of America

CONTENTS
ELEKTROSVYAZ
 Vol XIX, No 10, 1965
 PART I

	Page
V. N. Troitskiy: Study of USW Attenuation and Fading over Long Open Routes	1
V. F. Nesteruk: Invariant Operating States of an Ideal Kotel'nikov Receiver	7
V. D. Gavrilina: Noise Immunity of Frequency Shift Keyed Signals with Individual Limiters in the Diversity Arms (Dual Reception)	10
V. L. Bykov: Improving the Threshold Properties of the FM Receiver by Means of a Frequency Divider	14
V. M. Karshin: Mean Error Probability for Synchronous Reception of RF Telegraph Signals of Limited Spectrum	20
V. V. Shakhgill'dyan and Yu. F. Ignatov: Determination of the Region of Synchronous Operation of a Phase AFC System	25
V. S. Andreyev and A. G. Leont'ev: Frequency Divider Phase Stability	29
V. L. Tyurin: Some Problems of Electrical Network Attenuation-Frequency Response Correction	34
L. Ya. Misulovln: Multifrequency Receiver for Coded Information	42
V. E. Kitayev and A. A. Bokunayev: Switching DC Stabilizer with Shunt Connection of the Regulating Triode	48
BRIEF COMMUNICATIONS	
Yu. A. Gol'dshtein: Noise Immunity of Discrete Data Reception in a Channel Whose Transmission Factor Satisfies an "m-Distribution"	53
A. I. Rakov: The Choice of Frequencies for Telecontrol Channels	57
B. A. Belkin and V. A. Itkin: Experimental Investigation of a Frequency Multiplier in Which the Oscillator Operates in the Pulse Mode	58
B. V. Chistyakov: Design of a Reversible Binary Counter Using Ferrite-Transistor Components	60
Isai Gertsovich Klyatskin (on His Seventieth Birthday)	63
In Our Forthcoming Issues	63
New Books	64

RADIOTEKHNIKA
 Vol XX, No 10, 1965
 PART 2

B. R. Levin and Ya. A. Fomin: The Use of Time Quantization of a Random Process for Determining Its Overshoot Length Distribution	65
V. G. Vol'pyn: Minimum-Phase Selective Networks with Controlled Bandwidth and Small Deviation of the Phase-Frequency Characteristic	71
Ye. P. Arzhannikov and A. A. Lanne: Optimum Characteristics of Low-Pass Filters	81
BRIEF COMMUNICATIONS	
L. Ye. Kopilovich: Random Signals and Noise with Uniform Phase Distribution	89
V. V. Lebedev: Permissible Nonuniformity of the Amplitude-Frequency Characteristic in Recirculators	93
Yu. A. Volkov: Choosing the Collector Resistances in Multistage Transistor Amplifiers	95
M. Ye. Mazurov: Widespread Frequency Dividers and Multipliers	98
BRIEF COMMUNICATIONS	
V. A. Gamiy and Yu. F. Zin'kovskiy: Cathode Follower with Small Output Resistance	103
A Valuable Initiative	104
B. Ye. Petrov: Frequency Stability of Transistor and Electron-Tube Oscillators	105
V. P. Traubenberg: Influence of Magnetizing-Pulse Edge Duration on the Signal and Noise of Ferrite Cores with Rectangular Hysteresis Loop	111
L. Ye. Leykhter: Effect of Mistuning and Phase Fluctuations in Coherent Pulse Integration	115
LETTER TO THE EDITORS	
M. Ye. Gertsenshteyn and I. A. Bolosbin: Reception of Radar Signals in the Optical-Frequency Range	120
FOREIGN TECHNICAL NEWS	
N. I. Chistyakov: Small-Size Apparatus for Television Magnetic Recording	122
Subminiature Lamps	123
21st All-Union Scientific Conference of the Popov Society	123
I. G. Klyatskin (on His Seventieth Birthday)	125
New Books	127

Available From The Institute of Electrical and Electronics Engineers

FIZIOLOGIYA RASTENII
EDITORIAL BOARD

P. A. Genkel'
(Assistant Editor)
A. L. Kursanov
(Editor-in-Chief)
L. A. Nezgovorov
(Secretary)
A. A. Nichiporovich
Yu. V. Rakitin
B. A. Rubin
I. I. Tumanov

SOVIET PLANT PHYSIOLOGY

A translation of FIZIOLOGIYA RASTENII
a publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 12, Number 3

May-June, 1965

CONTENTS

	P A G E	
	ENG.	RUSS.
On the Possible Role of Carotenoids in the Mechanism of Oxygen Transfer During Photosynthesis—V. S. Saakov	327	377
Induced Synthesis of Enzymes in the Leaves of Semi-Immersed Plants—B. A. Rubin and L. N. Loginova	335	386
On the Drop in Mobility of Water in the Cell During its Partial Dehydration—C. Costes and B. B. Vartapetyan	339	390
State of Water in Plant Cells. Water Exchange in Plant Seeds—G. V. Lebedev and N. A. Askochenskaya	342	394
Nitrogen and Amino Acid Content in Rice Leaves Under Conditions of Abundant Ammonium Sulfate Supply—G. Falfi	345	398
Exchange of Metabolites in Plants via Aerial Organs—V. P. Ivanov and G. A. Yakobson	351	405
Translocations of Labeled Assimilates from Cotton Cotyledons—M. Tuichibaev and A. S. Kruzhilin	357	412
Use of Defoliants for Increasing the Rate of Flow of Assimilates into Seeds—A. A. Prokof'ev	361	416
On the Effect of Physiologically Active Compounds and Ionizing Radiation on Metabolism in Wheat—G. V. Il'ina, N. N. Kuznetsova, and S. G. Rydkii	368	424
Effect of Shortwave Ultraviolet Rays on Biosynthesis of Pigments in Plants—A. A. Shakhov and S. V. Shishchenko	375	432
Physiological and Biochemical Features of Vegetative and Generative Organs of Maize in Connection with Heterosis—E. L. Golynskaya, T. M. Grigorenko, S. N. Mikhalko, and N. M. Stetsenko	382	440
Characteristics of Nitrogen Metabolism in Generative Tissues of Cotton Varieties Differing in Earliness—V. F. Gerasimova	393	453
Compounds of Sugars with Organic Acids in Dormant and Germinating Maize and Wheat Seeds—S. V. Soldatenkov, M. G. Miryakubova, T. A. Mazurova, and E. V. Kalugina	397	457
Physiological and Biochemical Characteristics of Some Maize Varieties—F. F. Paramonov and A. S. Shvetsov	402	463
	(Continued)	

Annual Subscription: \$125

Single Issue: \$30

Single Article: \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	P A G E	
	ENG.	RUSS.
Peculiarities of Dedifferentiation of Specialized Carrot Cells and Characteristic of Callus Growth—A. N. Danilina, E. V. Luss, and R. G. Butenko	407	469
On the Carbohydrate and Lignin Content of Single Grape-shoot Cells—O. P. Ryabchun	415	479
Phytoncides and Chloroplast Movement—V. D. Roshchina	424	489
Movement of Protoplasm in Barley Coleoptile Cells at Sublethal Temperatures —T. V. Kirillova	428	494
Effect of Low Temperatures and Pathogenic Soil Microflora on Water Uptake by Thermophilic Plants—L. A. Nezhgorov and A. K. Solov'ev	433	500
Protective Action of Solutions During Extracellular Formation of Ice in Plant Tissues —G. A. Samygin and N. M. Matveeva	446	516
Frost Resistance of Winter Wheat in Relation to Conditions of Cultivation and Freezing —T. V. Voblikova	453	525
Variation in Some Physiological Features of Spruce Regrowth After a Stand has been Cut —Z. M. Naumenko	459	532
BRIEF COMMUNICATIONS		
Effect of Salinization of Soil on the Respiration Rate and Activity of Terminal Oxidases of Millet Leaves—E. V. Maksimova and G. R. Matukhin	466	540
Agglutination of Chloroplasts in Elodea Leaves—E. I. Barskaya and N. V. Balina	469	542
The Drought Hardiness of Hard and Soft Wheats Under the Conditions of Central Asia —Yu. P. Laptev	473	545
Regulation of the Seasonal Development Rhythm of Prevernal Nemoral Ephemerals Under Experimental Conditions—T. K. Goryshina	477	549
PRACTICAL APPLICATIONS		
The Optimum Leaf Area for Obtaining High Pea Yields—A. A. Kornilov and V. S. Kostina . .	480	551
METHODS		
A Method for Determination of the Pigment Content of Plant Chloroplasts—T. N. Godnev and G. A. Lipskaya	482	554
Quantitative Determination of Nucleic Acids in Plant Leaves—O. N. Kulaeva and E. A. Popova	485	558
BOOK REVIEW		
K. E. Ovcharov. Plant Vitamins—Reviewed by P. Bluzmanas and I. Dagis	492	565

The Russian date "Podpisano k pečati" of this issue . . . /29/1965. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

Vol. 6, No. 3, 1962

1. Results of geological exploration for oil and gas in the RSFSR for 1961.
B. A. Tkhostov p. 115
2. Geology and oil-gas possibilities of the Uzen anticline and adjacent regions of Stepnoy Mangyshlak.
N. U. Imashev et al. p. 120
3. Oil-gas prospects of the Tersko-Sulak lowland.
G. G. Gasanguseynov and G. I. Gorin p. 126
4. Regionalization of the Saratov Trans-Volga region in connection with exploration for oil and gas.
Ye. I. Denisenkova p. 131
5. Some features of the formation of oil and gas pools in the Dnieper-Donets depression.
E. Ye. London p. 137
6. Structure of the basement surface of the Kuybyshev area on the Volga.
A. A. Bykov and L. N. Yelanskiy p. 143
7. Tectonics of the Lower Kama oil region of Tataria.
I. S. Yegorov p. 147
8. Tectonics and environment of formation of the Tertiary sediments of the southeast part of the outer zone of the Cis-Carpathians.
I. P. Safarov p. 151
9. Present structural plan of the zone of the Repetek deep fault.
R. Ye. Ayzberg and G. I. Amurskiy p. 156
10. Mesozoic folding in the plains area of the Caspian-Kuban region.
Kh. D. Dzhaifarov p. 160
11. Exploration for local structures by geomorphic methods in the Bukharo-Khiva oil-gas basin.
L. P. Polnanova and N. M. Rozanov p. 165
12. Additional prospecting of oil strata by means of hydrodynamic investigations (hydroprospecting).
I. G. Stepin and G. N. Yudin p. 168
13. Use of submarine radiometric surveying of the sea floor.
Yu. V. Peysikov and A. N. Shatsov p. 170
14. Geothermal field of the intraformational Kamsko-Kinel depression.
A. V. Druzhinin p. 174
15. Prognostic reserves of oil and gas and problems of methods of estimating them.
M. A. Zhdanov p. 177
16. Calculation of prognostic reserves of oil and gas fields.
G. A. Kechek p. 184

- * - * - * -

PETROLEUM GEOLOGY
P. O. Box 171
McLean, Virginia

Translator and Publisher
James W. Clarke

Technical Editor
Grace Carrington

Editorial Assistant
Antoinette B. Clarke

Published monthly
\$25.00 a year (12 issues)

Published on a non-profit basis in the interest of geological science

Available From Petroleum Geology

TRANSLATIONS FROM HUNG-CH'I (RED FLAG)

No. 2, 1966

- Communist China -

No. 20

This serial publication contains translations of all the articles from the Chinese-language periodical Hung-ch'i, No 2, 11 February 1966. Complete bibliographic information accompanies each article.

CONTENTS

	<u>Page</u>
Confessions Concerning Line of Soviet-US Collaboration Pursued by New Leaders of CPSU.....	1
Two Books by New USSR Communist Leadership Advocate Soviet-American Cooperation.....	13
Era of Mastering Theory by the Masses of Workers, Peasants, and Soldiers Has Begun.....	32
Workers, Farmers, Soldiers Study Mao Tse-Tung's Thought With Ingenuity and Under Real World Conditions	38
Theories From "On Contradictions" Applied in Cement Kilns.....	70
Ten Thousand Kilometers and One Kilometer.....	88
How the "Old Procedure" Was Broken Time and Again.....	90

(Continued)

Available From Joint Publications Research Service 34405

HUNG-CH'I
No 2, 1966

CONTENTS (Continued)

	<u>Page</u>
Tend the Store Counter for the People and Learn the Skills in Practice.....	93
Wu Han's Bourgeois View of History.....	101
A Poor Peasant Family.....	113

Available From Joint Publications Research Service 34405

IZVESTIYA AKADEMII NAUK SSSR, ATMOSPHERE I OKEANOLOGIYA
Vol I, No 8, 1965

English Edition of
Izvestiya, Academy of Sciences, USSR, Atmospheric and Oceanic Physics Vol. 1, No. 8, 1965

CONTENTS

	Page	
	English	Russian
V. M. BEREZIN, Short-Range Forecast of Pressure and Velocity Fields of the Atmosphere Using the Complete Hydromechanic System of Equations	451	781-787
E. A. NOVIKOV, High-Order Correlations in Turbulent Flow	455	788-796
A. S. GURVICH AND S. L. ZUBKOVSKIĬ, Measurement of Fourth and Sixth Correlation Moments of a Velocity Gradient	460	797-802
V. V. IVANOV AND V. V. LEONOV, Light Scattering in an Optically Thick Atmosphere with a Non-Spherical Indicatrix	464	803-814
V. A. BARYSHEV, The Mesostructure of the Integral Radiation Field of the Earth	470	815-822
G. N. KOSTYANOV, On the Change of the Longwave Radiation Field in the Atmosphere During Winter	474	823-832
V. I. SKATSKIĬ, Some Results from Experimental Study of the Liquid-Water Content in Cumulus Clouds	479	833-844
B. A. KAGAN (COHEN), The Use of a Quasi-Stationary Model of the Interaction Between the Atmospheric and Oceanic Boundary Layers for the Calculation of the Water Temperature and Currents in the North Atlantic	488	845-852
R. V. OZMIDOV, On the Turbulent Exchange in a Stably Stratified Ocean	493	853-860
L. V. CHERKESOV, On the Tsunami Problem in a Non-Homogeneous Sea	498	861-871
Short Communications		
A. B. KARUNIN, Numerical Solution of the Equation of Advection in a Plane	504	872-875
A. B. KAZANSKIĬ, On the Critical Richardson Number	507	876-879
YU. GEORGIEVSKIĬ, V. I. DIANOV-KLOKOV, AND G. D. TURKIN, A Logarithmic Photometer with Compensation for Interference from Turbulent Fluctuations of a Light Beam	510	880-883
Chronicle		
K. YA. KONDRAT'EV, Conference on the Meteorology of the Stratosphere and the Mesosphere	513	884-890

Available From The American Geophysical Union

English Edition Published January 1966

NEWS OF THE ACADEMY OF SCIENCES USSR

DEPARTMENT OF TECHNICAL SCIENCES

TECHNICAL CYBERNETICS

No 6, 1965

[Following is the translation of the Russian-language publication Izvestiya Akademii Nauk SSSR, OTN, Tekhnicheskaya Kibernetika (English version above) Moscow, No 6, Nov-Dec 1965, pp 1-184.]

<u>TABLE OF CONTENTS</u>	<u>Source</u>	<u>Report</u>
A Problem in Integral Convex Programming, V. F. Dem'yanov, L. Yu. Khudyakov, Leningrad	3	1
Hybrid Functions -- The New Methods of Description of Complex Systems, O. R. Terno, Tallin	13	19
A Control System with Unloaded Reserve, I. T. Borisenok, B. M. Balakin, Moscow	19	28
Reliability of Subsystems Which are Isolated in a Reserved System with Repair, B. A. Kozlov, Moscow	23	32
On the Optimal Priorities in Queueing Systems, O. I. Bronstein, V. V. Rykov, Moscow	28	40
Reliability of a System in the Random Conditions of Its Use, S. Yu. Ruderman, Ufa	38	55
The Iteration Method for Construction Systems With Fixed Random Parameters, V. V. Yevseyev, T. D. Korablina, S. I. Ro. Kov, Moscow	41	60
On the Basic Relationships of Ternary-Pentary Majorital Algebra, Ye. A. Samokhvalov, Kiev	49	73
		(Continued)

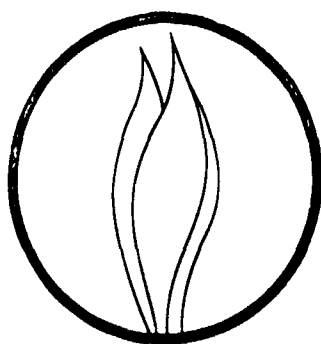
Available From Joint Publications Research Service 34515

<u>TABLE OF CONTENTS (cont.)</u>	<u>Source</u>	<u>Report</u>
On a Recognition Algorithm, Yu. K. Orlov, Yu. S. Natkovich, Moscow	59	87
Analysis and Some Problems in Optimization of the Structure of an Asynchronous Digital Computer with Simultaneous Operations, Ye. K. Degtyarev, Moscow	65	96
On the Problem of Specifying Finite Automata and Sequential Machines, V. M. Ozeroy, Moscow	75	113
Probability Simulation of the Operations of Multiplication and Raising to a Power for Nonstochastic Matrices, B. M. Boychenko, V. S. Gladkiy, Taganrog	78	118
Arithmetic Divisible Codes With Correction of Independent Errors, Yu. G. Dadayev, Moscow	84	127
Optimal Detection of Some Non- Gaussian Signals in Noise, Yu. G. Sosulin, Moscow	94	142
Separation of Signals from Noise with Loss Functions Which Depend On the Time of Observation of the Signals, Yu. S. Achkasov, A. I. Yablonskiy, Moscow	103	156
Optimal Filtration of a Signal of Given Form Against a Background of Nonstationary Random Noise, S. P. Dmitriyev, G. Ya. Dolgintseva, A. A. Ignatov, Leningrad	114	173
On the Correctness of the Statement of Problems in the Theory of Approx- imation of Random Functions, G. V. Rossikhin, V. B. Breyman, Moscow	121	184
Self-Adjusting Systems With Estima- tion of the Damping with Respect to Phase Shift, N. T. Kuzovkov, Moscow	131	200
		(Continued)

Available From Joint Publications Research Service 34515

<u>TABLE OF CONTENTS (cont.)</u>	<u>Source</u>	<u>Report</u>
Analytical Construction of Digital Regulators by the Method of Dynamic Programming, P. D. Krut'ko, Moscow	140	214
On a Method of Solution of Optimal Problems with Boundary Conditions G. M. Ostrovskiy, Yu. M. Volin, I. I. Malkin, Moscow	146	222
Calculation of the Nonlinear Mutual Influence of Channels in Certain Types of automatic Control Systems, A. D. Maksimov, Moscow	152	231
A Method for Determination of the Parameters of Motion and Orientation of an Object Close to a Planet, G. O. Fridlender, I. G. Ioffe, Moscow	160	244
Accelerated Matching of a Gyroscopic Tracking System, N. V. Kulikovskaya, Moscow	167	254
Third All Union Congress On Automatic Control (Technical Cybernetics)	174	266

Available From Joint Publications Research Service 34515



Soviet Physics Journal

The Faraday Press cover-to-cover
translation of Izvestiya VUZ. Fizika

Contents

Number 1 • January-February 1965

Editorial Board

Izvestiya VUZ. Fizika

a publication of the
Higher Education Institutes
USSR

K. V. Savitskii,
Editor-in-Chief

V. E. Zuev,
Associate Editor

M. A. Bol'shanina
V. S. Vavilov
A. A. Vorob'ev
P. V. Golubkov
E. F. Gross
B. S. Dzhelepov
V. A. Zhdanov
V. I. Iveronova
V. N. Kessenikh
A. L. Ryachev
A. B. Sapozhnikov
A. A. Sokolov
K. V. Shal'mova

	Russian page	English page
Effect of Dipole-Dipole Intermolecular Forces in the Vibration Spectra of Organic Compounds. I. Effect on Frequency: Theoretical Discussion. A. V. Sechkarev.....	5	1
Effect of Dipole-Dipole Intermolecular Forces in the Vibration Spectra of Organic Compounds. II. Temperature and Phase Dependence of Frequencies in the Raman Spectra of Monosubstituted Benzenes. A. V. Sechkarev and N. I. Dvorenko.....	13	7
Triple Correlation in a Plasma and the Collision Integral for the Dual Correlation Function. V. P. Silin.....	21	13
Absorption of Radio Waves by a Dielectric in a Field of Ionizing Radiation. V. K. Zhuravlev.....	32	23
Relation Between Atomic Number and the Inelastic-Scattering Cross-Section for Electrons in Metals. A. Ya. Vyatskin and A. N. Pilyankevich.....	36	26
Volume Pulsations of Gas Bubbles in a Liquid. E. I. Nesis and G. A. Ozeretskovskii.....	39	28
Determining the Parameters of Crystal Phosphors. R. K. Arutyunyan.....	42	31
Effects of Irradiation on Some Thermal Properties of Alkali Halide Solid Solutions. I. N. Anokhina, M. S. Ivankina, and P. A. Savintsev.....	47	36
Transients in Thin Base Semiconductor Diodes. V. I. Gaman....	50	38
The Progressive-Stiffness Method Applied to XY_4 Molecules in the Light of the Theory of Characteristic Frequencies. V. N. Vinogradova and I. N. Godnev.....	57	43
Voltage Buildup in a Semiconductor Diode Due to a DC Forward Current Step. I. M. Muratov and K. M. Kul'kin.....	62	47
Temperature Distribution in Melt and Crystal During Crystal Growth by the Kyropoulos Method. I. M. Spitskovskii and S. K. Zharebetkii.....	66	50

(Continued)

Single Issue: \$35

Annual Subscription: \$125

© 1966 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not be reproduced in any form without permission of the publisher.

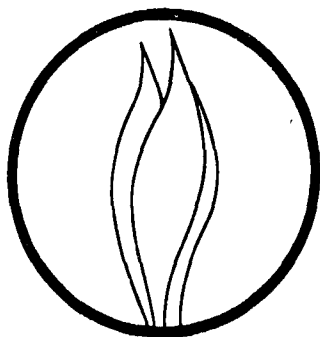
The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

CONTENTS (CONT'D)

	Russian page	English page
Dielectric Strengths of Monocrystals of Solid Solutions in the System KCl-KBr. E. K. Zavadovskaya and T. K. Kocherbaev.....	69	52
Mutual Solution of Components During Contact Melting. I. G. Berzina and P. A. Savintsev..	73	55
Contact Melting of Alkali Halides with High-Melting Compounds. I. G. Berzina and P. A. Savintsev.....	77	58
Photoluminescence of Polycrystalline Cadmium Sulfide Films at 77°K. K. V. Shalimova, V. N. Khirin, and O. I. Korolev.....	80	61
Magnetic Properties and Structure of Cobalt Films Prepared by Chemical Precipitation. N. A. Korenev, T. D. Martenyuk, and A. I. Uvarov.....	85	64
Destruction Mechanism of Color Centers and Recombination Luminescence in NaCl-Cd Crystal Phosphors. V. P. Chernenko, Yu. L. Lukantsev, and F. N. Zaitov.....	89	67
Photoluminescence of Ionic and Induced Luminescence Centers in KBr-Ag Monocrystals. I. A. Parfianovich, E. E. Penzina, and Yu. G. Penzin.....	94	70
Four-Frequency System with a Nonlinear Capacitance. V. N. Detinko.....	99	73
Temperature Dependence of Magnetostriction in Cobalt near the $\epsilon \rightleftharpoons \gamma$ Phase Transition. V. V. Zubov.....	103	76
Causes of Negative Photoconductivity in Liquid Organic Semiconductors. Yu. A. Kopylov, T. N. Trofimova, Yu. M. Stolovitskii, and A. M. Nemchenko.....	106	78
Estimation of Effective Cross Sections in Sensitized Fluorescence. N. A. Prilezhaeva.....	113	82
Optical Characteristics of Thin Films. I. A. Tekucheva.....	116	84
Measuring Internal Friction in a Ferrite from the Damping of Elastic Vibrations. V. N. Kuznetsov.....	122	88
Perturbation Theory in Inverse Scattering. A. A. Kostarev.....	125	90
Theory of Concentration Heterogeneities at Antiphase Boundaries in an Ordered Solid Solu- tion. L. E. Popov, E. V. Kozlov, and N. V. Kozhemyakin.....	129	93
Theory of Electrical Conductivity Measurements in Semiconductor Films by Means of Probes. V. L. Kon'kov and R. A. Rubtsova.....	135	97
Einstein's Theory of the Gravitational Field in a Representation by Orthogonal Reference Systems. V. I. Rodichev.....	142	102
Emission by Nitrogen in a High-Pressure Glow Discharge. V. V. Kokhanenko and N. A. Prilezhaeva.....	152	111
Conductivity Relaxation in Industrial Refractories at High Temperatures. P. T. Oreshkin and L. P. Andreeva.....	155	113
Diffraction of a Surface Wave Incident at an Arbitrary Angle on the Edge of a Plane. M. S. Bobrovnikov, V. N. Ponomareva, V. G. Myshkin, and R. P. Starovoitova.....	162	117
Some Characteristics of the Natural Ageing Kinetics of D1 Duralumin. Yu. I. Paskal and K. V. Savitskii.....	170	122
Brief Communications		
Energy Stored in NaCl, KCl, KBr, and KI Crystals After Gamma Irradiation at Room Temperature. E. K. Zavadovskaya and A. V. Kuz'mina.....	175	125
Device for Measuring the Temperature Coefficient of Pressure for Air. N. A. Lisenkov.....	176	126
Improving the Abrasive Power of Corundum and Carborundum Powders by Vacuum-Heat Treatment. M. A. Ilyushchenkov, K. V. Savitskii, and V. N. Kashcheev.....	178	127
Oscillator Strengths for Lines of Xenon I and Krypton I. V. P. Malakhov.....	180	128
Solvent Series with Respect to Oscillator Strength in the Absorption Bands of Praseodymium, Neodymium, Samarium, and Erbium. R. I. Slavkina and V. V. Serebrennikov.....	181	129
Effects of Chemical Treatment of Germanium Surfaces on Reverse Current Drift. M. I. Gorlov and N. V. Komosonov.....	184	181
Absorption Function of a Single Spectrum Line in a Finite Interval. V. E. Zuev and S. D. Tvorogov.....	185	132

Available From Paraday Press



Soviet Radiophysics

The Faraday Press cover-to-cover
translation of Izvestiya VUZ. Radiofizika

Contents

Volume 8, Number 1 • January-February 1965

Editorial Board *Izvestiya VUZ. Radiofizika*

a publication of the
Higher Educational Institutes USSR

V. L. Ginzburg,
Editor-in-Chief
V. I. Gaponov,
Associate Editor
K. B. Murashkina,
Corresponding Secretary

A. S. Alekseev
G. V. Aronovich
I. L. Bershtein
S. Ya. Braude
A. V. Gaponov
S. D. Gvozdozer
B. N. Gershman
G. G. Getmantsev
N. G. Denisov
V. V. Zheleznyakov
V. A. Zverev
E. A. Leontovich
M. A. Miller
L. L. Mysanikov
Yu. I. Neimark
S. P. Stral'kov
V. S. Troitskii
V. M. Fain
V. N. Shevchik

	Russian page	English page
On the Theory of the Radio Emission of Venus. A. S. Kuz'min ...	7	1
Beam Amplification of Plasma Waves Associated With Transition Radiation at a Sharp Interface. S. M. Fainshtein.....	19	10
Propagation of Waves of Finite Amplitude in a Plasma With Allowance for the Charge Separation Effect. A. D. Pataraya ..	27	16
Two-Dimensional Electromagnetic Fields Guided by Plasma Layers. II. I. G. Kondrat'ev and M. A. Miller.....	34	21
Energy Losses for a Charge Moving in a Heterogeneous Magneto- active Plasma. V. V. Tamolkin.....	42	27
On the Theory of Instability of an Anisotropic Plasma With a Beam. S. E. Rosinskii, A. A. Rukhadze, and V. G. Rukhl'in	50	33
On the Propagation of Electromagnetic Waves in a Medium With a Variable Refractive Index. L. P. Presnyakov and I. I. Sobel'man.....	57	38
The Radiation Reaction for Longitudinal Waves. G. V. Gorodinskii.....	64	44
Statistical Characteristics of Self-Modulation of Solid-State Laser Radiation. V. I. Bespalov and A. V. Gaponov	70	49
Oscillation Modes of Lasers With Dielectric Cavities. A. N. Oraevskii and V. A. Shcheglov.....	81	57
Steady-State Laser Oscillations With Distributed Losses. L. A. Ostrovskii and E. I. Yakubovich	91	63
Nonresonance Absorption of Radio Waves in Molecular Oxygen. K. S. Stankevich.....	98	68
Correlation Functions of a Wave Field Above a Statistically Rough Surface. I. M. Fuchs.....	104	73
Information Capacity of a Quantum Communications Channel. I. R. L. Stratonovich.....	116	82
Information Capacity of a Quantum Communications Channel. II. R. L. Stratonovich	129	92
The Radiation of a Prolate Spheroid Impedance Antenna. G. T. Markov, D. A. Duplenkov, and N. F. Osipovich ...	142	102

(Continued)

Single Issue: \$35

Annual Subscription: \$125

© 1965 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not
be reproduced in any form without permission of the publisher.

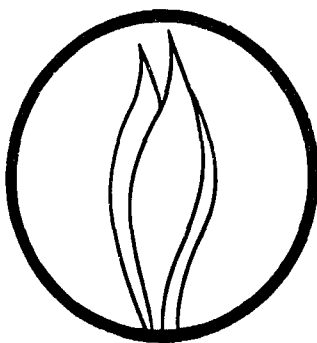
The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

CONTENTS (CONT'D)

	Russian page	English page
Parametric Amplifier With Transverse Interaction and Electrostatic Focusing. V. I. Yur'ev....	153	111
Effect of Constant Electric and Magnetic Fields on the Formation Time of a Superhigh-Frequency Pulsed Gas Discharge. S. M. Levitskii, A. Ya. Yavlinskii, and I. V. Shirokov	162	119
The Propagation of Excitation in One-Dimensional Structures. B. R. Telesnin.....	169	124
Logic Circuits Based on Ternary Parametrons. V. P. Komolov and A. S. Roshal.....	177	129
Brief Communications and Letters to the Editor		
Determination of the Declinations of Certain Extragalactic Radio Sources With the Large Pulkovo Radio Telescope. V. Ya. Gol'nev, G. G. Novozhilova, and Yu. N. Pariskii..	183	134
Some Results of Measurements of the Attenuation of Cosmic Radio Emission in the Ionosphere. Yu. S. Korobkov	186	136
Radiation of a Surface Wave by a Charge Crossing the Interface Between Two Media. V. Ya. Eldman	188	138
Space and Time Correlations of a Field Over the Surface of the Sea. I. M. Fuchs.....	191	141
Radiation of a Beam Moving Over a Diffraction Grating on a Shielded Dielectric. E. I. Chernyakov.....	193	142
On the Relation Between the Ray and Wave Descriptions of Electromagnetic Beams in Quasi-Optical Systems. S. N. Vlasov and V. I. Talanov.....	195	145
Observation of the Multibeam Emission of a Helium-Neon Gas Laser. Yu. I. Zaitsev and D. P. Stepanov	198	147
Excitation Parameter of a Beam Maser. A. F. Krupnov and V. A. Skvortsov.....	200	148
Investigation of Automatic Control Systems by Means of Amplitude-Phase Criteria of Necessary Stability with Respect to Modulus and Phase. A. S. Klyuev.....	203	151
The Absolute Stability of Certain Classes of Control Systems. V. A. Bruzin.....	206	153

Available From Paraday Press



Soviet Radio Engineering

The Faraday Press cover-to-cover
translation of Izvestiya VUZ, Radiotekhnika

Contents

Volume 8, Number 1 • January-February 1965

Editorial Board
Izvestiya VUZ, Radiotekhnika
a publication of the
Higher Educational Institutes USSR

V. V. Oglevskii,
Editor-in-Chief
Ya. K. Trokhimenko,
Associate Editor
D. V. Ageev
N. P. Bogoroditskii
Yu. T. Velichko
N. F. Vollmer
M. P. Dolukhanov
L. N. Kolesov
K. I. Krylov
I. V. Lebedev
N. N. Livanov
M. S. Neiman
A. V. Netushil
I. P. Stepanenko
V. P. Taranenko
V. I. Chaikovskii
Yu. Ya. Yurov

	Russian page	English page
Pulse Generators with Four-Terminal Feedback Networks. V. V. Grigorin-Ryabov	1	1
The Lorentz Lemma in Waveguide Discontinuity Calculations. N. V. Lyapunov, A. G. Shein, and A. I. Tereshchenko ...	11	7
Designing Irregular Waveguides by the "Equivalent Resonator" Method. E. L. Kulikov, V. S. Il'in, and V. K. Il'in	18	12
Determining the Optimum Potential Distribution in the Gun of a Low-Noise Traveling-Wave Tube. F. L. Sayakhov	27	18
High-Directional Antennas with Variable Aperture and Signal Processing Following Frequency Conversion. E. A. Vorob'ev ..	35	25
Designing Nonlinear Pulse-Forming Lines with Ferrites. A. M. Belyantsev and Yu. K. Bogatyrev	41	29
Selecting the Optimum Shape for a Multimode Rectangular Wave- guide Transition. A. I. Tereshchenko and V. V. Dolzhikov ..	48	34
An Approximate Design Method for Resonators with Dielectrics. G. F. Semenov	55	40
Transfer Functions of Certain Resonant Systems for Small Perturba- tions in Input Voltage Phase. E. M. Plotnikov	65	47
Errors in Measuring SHF Phase Shifts Using Certain Interference- Type Systems. I. M. Grankin and V. A. Ishchenko	72	51
Field Calculations for a Symmetric Air-Filled Strip Line Under Static Conditions. I. S. Kovalev	78	56
Brief Communications		
Energy Spectrum of the Sum of Delayed Stochastic Signals. V. I. Chaikovskii	87	62
Selectivity of a Synchronous Detector Preceded by a Filter. G. A. Shtamberger and V. D. Gel'fand	89	64
Analytical Determination of the Network Transfer Constants for Three-Waveguide Directive Couplers Connected in Cascade. E. S. Sablin	93	66

(Continued)

Single Issue: \$35

Annual Subscription: \$115

© 1965 by The Faraday Press, Inc.

All rights reserved. This publication or parts thereof may not
be reproduced in any form without permission of the publisher.

The Faraday Press, Inc.

84 FIFTH AVENUE, NEW YORK, N. Y. 10011

CONTENTS (CONT'D)

	Russian page	English page
Method and Technique for Experimental Investigation of Noise Stability in a Phase-Type Automatic Frequency-Control System. Yu. V. Ulyanovskii	96	69
Calculating Thermal Electron Velocities for Static Centrifugal-Electrostatic Focusing. G. N. Korostelev	99	71
An Experimental Investigation of High-Directional Zoned Reflecting Systems Forming Fan Radiation Patterns. E. A. Vorob'ev	103	75
Ferrite Capacitance-Type Transducer Pickups. A. A. Bokrinskaya and V. V. Komlik	105	76
Effect of Reflections on Accuracy of Group Delay-Time Measurements. V. V. Molebnyi	108	79
Use of the Mirror-Image Method to Evaluate the Scattering Matrix of a Slot Waveguide Bridge. E. S. Sablin	111	81
On Designing a Pumping Circuit for an Inductive Parametron. V. A. Sokolov	116	85
Slot Radiator with Ferrite-Controlled Polarization. Yu. V. Shubarin and A. N. Magda	119	87
Letter to the Editor		
On the Problem of the Accuracy with which Permeability and Dielectric Constant are Determined by the Two-Position Method. G. I. Gladyshev and Yu. A. Egorshin	122	90

Available From Paraday Press

CYBERNETICS

(No 5, 1965)

- USSR -

Following is a complete translation of the Russian-language periodical Kibernetika (Cybernetics), Kiev, No 5, September-October 1965, "Naukova Dumka," pages 1-104, plus inside front and rear covers. Names of authors and original page numbers accompany each article.

CONTENTS

	<u>Page</u>
Theory of Automata and Formal Transformations of Microprograms, V.M. Glushkov	1
Isomorphism of Abstract Automata. II, Yu.V. Kapitonova	19
A Group of Automaton Substitutions, B. Chakan', F. Geheg	27
Estimation of the Minimal Number of Transfers with Dynamic Distribution of a Page Memory, S.D. Mikhnovskiy, N.Z. Shor	35
A High Speed Sorting Algorithm, L.S. Lozinskiy, S.B. Pogrebinskiy	40
A Note on Internal Sorting of Information, A.S. Lozinskiy	51

Available From Joint Publications Research Service 34651

<u>Contents (Continued)</u>	<u>Page</u>
Determination of Buffer Capacity in a System Using Time Division, L.A. Kalinichenko	59
Ordered Retrieval of a Multivalued Reply from an Associative Memory, V.P. Gladun, A.A. Yakuba	64
Sorting in the "Matrix Catalog" Type Memory, V.P. Gladun	70
Use of a Cobol-Type Language for Translator Description, A.P. Babenko	82
Convex Programming in a Normed Space, B.N. Pshenichnyy	92
Description of Functioning of Reserved Systems by Means of Semimarkovian Processes, V.S. Korolyuk, A.A. Tomusyak	115
Asymptotic Investigation of a Stationary Queue in the Case of Generalized Incoming Flow, V.A. Ivnitkiy..	127
Use of Linear Programming Methods for the Selection of Optimal Conditions of Irradiation of Malignant Growths in Remote Radiation Therapy, Yu.A. Oleynik- Ovod, L.Ya. Klepper	142
Computer Sorting of Numbers, I.A. Itskovich, Kh.M. Furman	175
Study of the Information on a Graph Definable by Recurrence Relations, V.V. Matyushkov	180
A Class of Standard Operators for Computational Systems Oriented to the Solution of Economic Problems, II, V.N. Afanas'yev, L.S. Lozinskiy, S.B. Pogrebinskiy	192
Science News	207
The Authors	212
Subscriptions for 1966 still open	214

Available From Joint Publications Research Service 34651

KINETIKA I KATALIZ
EDITORIAL BOARD

A. A. Balandin
G. K. Borekov
(Editor-in-Chief)
V. T. Bykov
I. V. Kalechits
V. N. Kondrat'ev
A. A. Koval'skii
K. I. Matveev
S. Z. Roginskii
A. Ya. Rozovskii
(Secretary)
M. G. Slin'ko
V. V. Voevodskii
(Assistant Editor)
N. N. Vorozhtsov

KINETICS AND CATALYSIS

A translation of KINETIKA I KATALIZ
A publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 6, Number 3

May-June, 1965

CONTENTS

	P A G E	
	ENG. RUSS.	
The Compound Molecule in the Theory of Chemical Reactions—E. E. Nikitin.	333	377
On the Possibility of Determining Experimentally the Mechanism of the Reaction of Hot Atoms with Hydrogen Molecules—A. Ya. Temkin	341	387
On the Mechanism of Termination of Chain Oxidations by Radical Stabilizers —M. S. Khlopyankina, A. L. Buchachenko, M. B. Neiman, and A. G. Vasil'eva	347	394
The Kinetics of the Thermal Decomposition of Methane—G. V. Gulyaev and L. S. Polak	352	399
Halogenation of the Simplest Olefins in the Solid Phase at Low Temperatures—V. A. Lishnevskii	357	406
Alteration of the Physical-Chemical Properties of Solids through Additives. IV. The Thermal Decomposition of Silver Oxalate—Yu. A. Zakharov, G. G. Savel'ev, V. K. Zhurayev, and V. V. Boldyrev	364	415
Catalytic Properties of High-Melting Compounds and Principles for Creating Refractory Materials with Previously Fixed Catalytic Properties—G. V. Samsonov	371	424
The Effect of Adsorbed Oxygen on the Temperature Dependence of the Conductivity of Zinc Oxide—Yu. P. Solonitsyn	378	433
EPR Study of the Structure of Active Centers in Chromium Oxide Catalysts for Ethylene Polymerization—I. V. Aleksandrov, V. B. Kazanskii, and I. D. Mikhelkin	383	439
A Study of the Alteration in the Work Function of Titanium Dioxide and its Solid Solutions in Chemisorption and Catalytic Reactions—I. S. Sazonova and N. P. Keier	390	448
Reactions of α -Oxides. VII. Acid Catalysis and Autocatalysis in the Reaction of Ethylene Oxide with Amines—N. N. Lebedev and M. M. Smirnova	397	457
Catalytic Properties of Praseodymium Oxide in the Dehydrogenation and Dehydration of Alcohols and in the Dehydrogenation of Tetralin—A. A. Tolstopyatova, YU Ch'i-ch'uan, and L. S. Gornikova	404	466
Use of a Circulation Method to Study the Kinetics of Heterogeneous Catalysis. II. Cracking of Cumene on Aluminosilicate Catalysts—K. V. Topchieva, B. V. Romanovskii, and V. I. Timoshenko	409	471
Effect of the Aging Temperature of Manganese Dioxide on the Rate of Oxygen Isotope Exchange—L. A. Kasatkina and A. P. Zuev	413	476
Adsorption of Krypton on Heat-Treated Platinum Films—Ya. Adamek, V. D. Yagodovskii, and V. M. Gryaznov	421	486
The Influence of Nonstoichiometric Sulfur on Activity of Sulfide Catalysts—K. A. Pavlova, B. D. Panteleeva, É. N. Deryagina, and I. V. Kalechits	427	493

(Continued)

Annual Subscription: \$150

Single Issue: \$30

Single Article: \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	P A G E ENG. RUSS.
Vapor-Phase Oxidation of Xylenes on Copper Catalysts Containing Additions of Heavy-Metal Oxides—N. I. Popova and B. V. Kabakova	433 499
Dehydrogenation of Isopropyl Alcohol and Formic Acid on Germanium—V. M. Frolov, É. K. Radzhabli, and S. Z. Roginskii	437 504
Kinetic Study of Reactions Complicated by Autocatalysis—L. M. Litvinenko, A. F. Popov, and V. I. Tokarev	442 510
Diffusion Kinetics of Bimolecular Reactions in the Solid Phase. Reactions of Immobile Centers with Mobile Components of a Heterophase—Ya. S. Lebedev	451 522
BRIEF COMMUNICATIONS	
The Mass Spectra of the Dissociation of the CH_4^+ , CH_3^+ , and CH_2^+ Ions and of Some Radicals—S. E. Kupriyanov	460 532
The Principle of the Additivity of the Energy of the Activated Complex in Radical Reactions—F. B. Moin	462 534
The Mechanism of the Radiolytic Oxidation of Organic Compounds by Molecular Oxygen—V. V. Saraeva	465 537
Kinetic Study of the Intermediate Hydrolysis Steps of BH_4^- —K. N. Mochalov, V. S. Khain, and G. G. Gil'manshin	469 541
Role of the Medium in Mechanism of the Reaction of Isocyanates with Alcohols. I—R. P. Tiger and S. G. Éntelis	473 544
Kinetics of the Reaction of Hydrogen Sulfide with Reduced Bauxite—O. P. Korobeinichev	476 547
On the Nature of the Limiting Step in the Thermal and Photochemical Decomposition of Ionic Crystals—V. V. Boldyrev and A. A. Medvinskii	480 550
On the Equilibrium Composition of a Working Vanadium Oxide Catalyst—V. Ya. Vol'fon	484 563
Study of the Electronic State of Catalysts During Adsorption and Catalysis. III. Mechanism of Hydrogenation of Carbon Dioxide on a Nickel Catalyst—G. M. Kosub, M. T. Rusov, and V. M. Vlasenko	487 556
Hydrogenation of 3-Sulfolene—A. M. Sokol'skaya and S. M. Reshetnikov	490 559
LETTERS TO THE EDITOR	
On the Influence of Excitation of H_2^+ on the Cross-Section of the Ionic-Molecular Reaction $\text{H}_2^+ + \text{H}_2 \rightarrow \text{H}_3^+ + \text{H}$ —N. N. Tunitskii and G. E. Spezhakova	494 563
Effect of Complex Formation on Reactions of Positronium with Inorganic Ions—V. I. Gol'danskii, V. G. Firsov, and V. P. Shantarovich	495 564
ABSTRACTS OF ARTICLES FROM "JOURNAL OF CATALYSIS," NO. 6, 1964	
Thermal Decomposition of Aluminum Alkoxides and Cleavage of Ethers, Catalyzed by Aluminum Oxide—El-Almadi I. Heiba and Ph. S. Landis	497 566
Electric Conductivity of Samples of Pure Catalysts of the Hydrogenation of Ethylene and Catalysts Containing a Zinc Oxide Impurity. I. Activation of the Catalyst and Adsorption of Oxygen on Pure Zinc Oxide—B. M. Arghitopoulos and S. J. Teichner	498 566
Significance of Intermediate π -Complexes in Reactions of Hydrocarbons on Transition Metal Catalysts—I. I. Rooney and G. Webb	499 566
Catalysis on Aluminum Oxide. II. Catalytic Properties of η - and γ -Oxides of Aluminum—D. S. MacIver, W. H. Wilcox, and J. M. Bridges	500 567
Investigation of Hydrogen Adsorbed on Solid Catalysts. VI. Hydroxyl Groups of Aluminum Oxide and Aluminosilicates as Active Centers of Catalysts—W. K. Hall, F. E. Lutzenki, and H. R. Gerberich	501 567

(Continued)

Available From Consultants Bureau

CONTENTS (continued)

	P A G E	ENG. RUSS.
Surface Structure of Silver Films on Glass—J. G. Allpress and J. V. Sanders	502	568
Semiconductor Properties of Eu_2O_3 and Gd_2O_3 and Exchange Interaction in the System MnO-MgO as a Possible Criterion of the Catalytic Decomposition of Ammonia —E. G. Vrieland and P. W. Selwood	503	568
Investigation of the Mechanism of the Catalytic Oxidation of Propylene—C. R. Adams and T. J. Jennings	504	568
 ABSTRACTS OF ARTICLES FROM "JOURNAL OF CATALYSIS," NO. 1, 1965		
Homogeneous Catalysis by Salts of Noble Metals. I. Homogeneous Isomerization of Olefins by Palladium Compounds—G. C. Bond and M. Hellier	505	569
Active Centers of the Oxidation on Aluminosilicate—R. L. Hodgson and J. H. Raley	506	569
γ Irradiation of Aluminum Oxide Catalysts—G. J. K. Acres, D. D. Eley, and J. M. Trillo	507	569
Mechanism of the Low-Temperature Promotion of Chromium Oxide by Ions of Variable Valence—J. Deren and J. Haber	508	570
Kinetics of the Desorption of Aromatic Hydrocarbons in the Thermal Decomposition of Organic Radicals Adsorbed on the Surface of Nickel Oxide—A. K. Galwey	509	570
Mechanism and Kinetics of the Synthesis of Methylchlorosilanes in the Presence of Metallic Catalysts. II. Kinetics of the Reaction of Methyl Chloride and Silicon in the Presence of a Copper Catalyst—R. J. H. Voorhoeve, B. J. H. Geertsema, and J. C. Vlughter	510	571
Factors Determining the Poisoning of an Iron Catalyst by Sulfur in the Fischer-Tropsch Synthesis—R. B. Anderson, F. S. Karm, and J. F. Shultz	511	571
Dissociation of Anthracene Dimer into Solid Acid Catalysts at 25° —R. M. Roberts and C. Barter	512	572
Stereochemistry and Mechanism of the Catalytic Hydrogenation of Cycloalkenes. VI. Isomerization of 1,2-Dimethylcycloalkenes as a Method of Producing Cis- and Trans- 1,2-Dimethylcycloalkanes—S. Siegel, P. A. Thomas, and J. T. Holt	513	572
Behavior of o-Nitrophenol in the Presence of Alkaline Earth Oxides—H. Zeitlin, R. Frei, and M. McCarter	514	572
Influence of "Inert" Solid Compounds on Heterogeneous Reactions—R. B. Mosely and G. M. Good Influence of Cation Exchange on the Activity of Aluminosilicate Catalysts in Oxidation Reactions—B. D. Flockhart and R. C. Pink	515	573
	516	573

The Russian date "Podpisano k pečati" of this issue was 6/18/1965. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

B. V. Deryagin
B. A. Dogadkin
(Assistant Editor)
A. V. Dumanskii
(Editor-in-Chief)
A. V. Kiselev
V. N. Kuleznev
(Secretary)
P. A. Rebinder
M. P. Volarovich
P. I. Zubov

COLLOID JOURNAL

of the USSR

A translation of **KOLLOIDNYI ZHURNAL**,
a publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 27, Number 4

July-August, 1965

CONTENTS

	PAGE	RUSS. PAGE
Analytical Method for Quantitative Assessment of the Influence of Surface-Active Agents on the Particle Size Composition of Cement—N. Ya. Avdeev, A. N. Grach'yan, and L. N. Dovyborova.	407	481
Adsorption of Dissolved Substances by Porous Materials During Capillary Imbibition—M. A. Al'tshuler, E. S. Matskevich, and L. S. Ivanova	410	485
Effect of Surfactants on the Thixotropic Properties of Alkyd-Polyamide Resins—T. A. Amfiteatrova, T. G. Shalopalkina, and A. A. Trapeznikov	414	489
Theory of Stability and Coagulation by Electrolytes of Lyophobic Sols. 7. Influence of the Charge of Subsidiary Ions on the Coagulating Action of Electrolytes—V. M. Barboi	419	494
Rheology of Polymers. Elasticity, Strength, and Viscosity of Polyethylene in the Fluid State—G. V. Vinogradov and I. M. Belkin	424	499
Radioactive Tracer Study of the Mechanism of Drying of Disperse Materials Under Conditions of Moisture Exchange with the Underlying Soil—M. P. Volarovich, N. I. Gamayunov, A. P. Polyanicheva, and N. V. Churaev	428	505
Electron Diffraction Investigations of Peat Components—M. P. Volarovich and A. A. Terent'ev	432	510
Sorption of Opposite Ions in Coagulation of Ferric Hydroxide Sols—Yu. M. Glazman, A. A. Baran, V. M. Barboi, and D. N. Strazhesko	435	513
Agglomeration of Butadiene-Styrene Latex Particles by Freezing. 2. Effects of the Amount of Emulsifier and of the Freezing Time—E. Dvorsak, S. Mysik, and L. Blazek	441	520
Mechanical Properties of Mixes with Carbon Black Fillers at Low Temperature. 1. Strength Characteristics of Unvulcanized Mixes with Carbon Black Fillers—M. N. Tolmacheva, V. E. Gul', and B. A. Dogadkin	445	524
Detachment of Dust Particles Adhering with a Drop of Water to a Solid Surface—A. D. Zimon and T. S. Volkova	449	529
Stream Method for Measurement of the Dispersity of Hygroscopic Smokes. 1. Theory of Deposition of Growing Aerosol Particles from a Streamline Flow—S. M. Kontush	453	534
Rheology of Binary Polymer Mixtures—V. N. Kuleznev, I. V. Konyukh, G. V. Vinogradov, and I. P. Dmitrieva	458	549

(Continued)

Annual Subscription: \$36

Single Article: \$15

Single Issue: \$36

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants, Bureau Enterprises, Inc., 227 West 17th Street, New York City, United States of America.

CONTENTS (continued)

	PAGE	RUSS. PAGE
Statistical Thermodynamics of Surface Phenomena. 1. Relations Between the Distribution Functions with Two Different External Fields—F. M. Kuni.	464	546
Kinetics of Thermal Ionization of an Aerosol—E. Z. Melikhov	469	552
Formation of Ice Crystals in Supersaturated Water Vapor—K. M. Merzhanov.	473	556
Agglomeration of Butadiene-Styrene Latices by Freezing. 3. Effect of the Butadiene-Styrene Ratio in the Copolymer—S. Mysik, L. Blazek, and E. Dvorzak	478	563
Combined Agglomeration of Butadiene-Styrene and High-Styrene Latices by Freezing—S. Mysik	483	569
Effect of Colloidal Lead on Thermooxidative Degradation of Polystyrene—É. M. Natanson, Yu. I. Khimchenko, Z. R. Ul'berg, and N. E. Kharitich	486	573
Sorption Isotherms and Heats of Wetting of Polyanthramide—E. F. Nekryach and Z. A. Samchenko.	490	578
Some Aspects of the Diffusion Theory of Evaporation of Drops of Volatile Liquids—V. M. Nuzhnyi, Yu. I. Shmanski, and G. K. Ivanitski	494	583
Properties of Latices Prepared with Nonionic Stabilizers. 2. Butadiene-Styrene Latices—R. M. Panich, N. V. Konvalova, T. B. Gonovskaya, D. M. Sandomirski, and S. S. Voyutski	499	589
Coagulation Processes in Superphosphate Production—M. E. Pozin, B. A. Kopylev, I. F. Efremov, V. L. Varshavski, and A. S. Markovich	502	593
Influence of Various Factors on the Low-Temperature Stability of Synthetic Latices. 3. Influence of Plasticization of the Latex Particles on Frost Resistance of SKS-65GP Latex—P. I. Rakhlin and A. V. Lebedev	507	598
Influence of Nonionic Surfactants on the Stability of Lyophobic Sols. 2. Coagulation of Colloidal Silver Iodide Solution—I. P. Sapon and Yu. M. Glasman	510	601
Adsorptive Activity of Fillers for Rubber—L. D. Skrylev and R. E. Savina	513	605
The Critical Size of Disintegrating Liquid Drops—M. V. Tovbin, O. A. Panasyuk, and L. N. Oleinik	516	609
Mechanical Properties of Adsorption Layers of Saponin at Aqueous Solution-Toluene and Aqueous Solution-Rubber Solution in Toluene Interfaces—A. A. Trapeznikov and K. V. Zotova	520	614
States of Aggregation of Macromolecular Compounds. 10. Polytetrafluoroethylene—R. I. Fel'dman and S. I. Sokolov	524	619
DISCUSSION		
Unsoundness of a Purely Thermodynamic Treatment of the Adhesion of Solids—S. S. Voyutski and B. V. Deryagin	528	624
LETTER TO THE EDITOR		
Production of Films and Coatings by Mixing of Aqueous Dispersions of Thermodynamically Incompatible Thermoplastics—V. E. Gul', A. G. Sazhko, and B. A. Dogadkin	531	627
OBITUARY		
Vsevolod Ivanovich Nazarov (1894-1965)—S. Sokolov, E. Alekandrova, and A. Luk'yanov.	533	629

The Russian date "Podpisano k pechatii" of this issue was 7/8/1965. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

Soviet Physics CRYSTALLOGRAPHY

A Translation of "Kristallografiya"

(Russian Original Vol. 10, No. 5, pp. 591-771, September-October, 1965)

Vol. 10, No. 5, pp. 505-654

March-April, 1966

CONTENTS

	PAGE	RUSS. PAGE
The Structure of Calcium Seidozerite. <u>S. M. Skazat and V. I. Simonov</u>	(E) 505	591
Refining the Structure of Crystalline As_2Se_3 by Finding Probable Corrections to the Atomic Coordinates. <u>A. A. Vaipolin</u>	(T/E) 509	596
Determination of the Crystal Structure of Probertite <u>I. M. Rumanova, Kh. M. Kurbanov, and N. V. Belov</u>	(E) 513	601
Electron-Diffraction Study of the Structure of the γ Phase in the Ni - In System. <u>R. V. Barmatova and Z. G. Pinsker</u>	(E) 523	614
An Electron-Diffraction Study of the Structure of Thin Films of Copper Bromide. <u>R. N. Kurdyumova and S. A. Semiletov</u>	(E) 529	622
Symmetry and Lattice Parameters of Some Composite Perovskites. <u>V. S. Filip'ev and E. G. Fesenko</u>	(E) 532	626
X-Ray Study of the Ferroelectric Phase Transformation in Lead Metatantalate. <u>I. G. Ismailzade</u>	(E) 535	630
Ordered and Disordered Polymorphic Varieties of Serpentine-Type Minerals, and Their Diagnosis. <u>B. B. Zvyagin, K. S. Mishchenko, and V. A. Shitov</u>	(T/E) 539	635
Structure, Magnetic, and Electrical Properties of Solid Solutions in the System $BiFeO_3 - Sr(Sn_{1/3}Mn_{2/3})O_3$. <u>A. S. Viskov, Yu. N. Venetsev, and G. S. Zhdanov</u>	(E) 547	644
Mosaic Structure of Ruby Crystals Grown by Verneuil's Method. <u>N. V. Gliki and A. A. Urusovskaya</u>	(E) 551	650
Variation in Anomalous Birefringence in Crystals of KH_2PO_4 . <u>V. A. Shamburov and I. V. Kucherova</u>	(E) 558	658
Hydrothermal Crystallization Kinetics of Corundum. <u>V. A. Kuznetsov</u>	(E) 561	663
Spiral-Layer Growth of Garnet Ferrite Crystals Under Hydrothermal Conditions. <u>V. D. Zamozhskii and P. V. Klevtsov</u>	(E) 565	668
Effects of Surface-Active Materials on the Concentration of an Aqueous Salt Solution at Saturation. <u>E. N. Slavnova, N. V. Gordeeva, and T. K. Sitnik</u>	(E) 571	677
The Question of the Experimental Confirmation of the Dislocation Theory of Crystal Growth. <u>L. O. Meleshko</u>	(T/E) 575	684
Motion of Dislocations Under the Action of a Magnetic Field. <u>L. A. Chebotkevich, A. A. Urusovskaya, and V. V. Veter</u>	(E) 578	688
Mechanism of Obstacle Encompassment as One of the Possible Mechanisms of Slip-Band Formation. <u>A. I. Landau and V. M. Borzhkovskaya</u>	(T/E) 582	693
Change in the Optical Properties of Crystals when Placed in Electric Fields (Kerr Effect). <u>V. É. Perfilova, A. S. Sonin, and L. G. Lomova</u>	(E/T) 588	701
Microhardness of Crystals of Yttrium Iron-Gallium and Iron-Aluminum Garnets. <u>S. Sh. Gendeleev and N. G. Shcherbak</u>	(E) 592	708
Electron-Microscope Study of Low-Temperature Forms of Ice. <u>V. N. Vertsner and Gl. S. Zhdanov</u>	(E) 597	715

Copyright © 1966 by the American Institute of Physics, Incorporated

CONTENTS (continued)

	PAGE	RUSS. PAGE
Study of the Phase Transitions in Polymesomorphic Liquid Crystals by Ultrasonic Methods. <u>A. P. Kapustin and G. E. Zvereva</u>	(E) 603	723
Electron Paramagnetic Resonance in Irradiated Quartz Single Crystals Containing Aluminum Impurity. <u>Kh. I. Zil'bershtein, V. A. Ioffe, and Yu. F. Fedorov</u>	(E) 607	727
BRIEF COMMUNICATIONS		
Structure of Gallium Arsenide Whiskers on Germanium. <u>E. N. Laverko, V. M. Marakhonov, and S. M. Polyakov</u>	(E) 611	732
Atomic Structure of 2,5-Diphenylthiodiazole. <u>Z. V. Zvonkova and A. N. Khvatkina</u> .	(E) 614	734
Detection of Superlattice Reflections Near the Primary Beam and of the Supperlattice Repeat Distances of Antigorite. <u>V. A. Shitov</u>	(E) 616	737
Effects of Variation in Chemical Composition on the Intensity Distribution in Electron-Diffraction Patterns from Textures for Mica-Type Minerals. <u>K. S. Mishchenko and B. B. Zvyagin</u>	(E) 618	738
Dependence of Structural Perfection and Properties of Crystals on Crystal- Growing Methods. <u>L. M. Belyaev, G. F. Dobrzhanskii, L. V. Novozhikhareva, and M. P. Shaskol'skaya</u>	(E) 621	742
A Method of Growing Crystals from Solution Under Static Conditions. <u>A. V. Belyustin and N. S. Stepanova</u>	(E) 624	743
Room-Temperature Induced Emission of Yttrifluorite Crystals Containing Nd ³⁺ . <u>Kh. S. Bagdasarov, Yu. K. Voron'ko, A. A. Kaminskii, V. V. Osiko, and A. M. Prokhorov</u>	(E) 626	746
Growth of Barium Ferrite Single Crystals from Solution in Melts. <u>R. A. Voskanyan</u>	(E) 628	748
Production of Large Chromium-Doped ZnWO ₄ Crystals by the Czochralski Method. <u>V. I. Popov</u>	(E) 630	750
Preparation of Single Crystals of Germanium-Silicon Alloys. <u>S. I. Tairov, V. I. Tagircov, M. G. Shakhtakhtinski, and A. A. Kuliev</u>	(E) 632	751
Evaporation of Silicon to Obtain Epitaxial Films. <u>A. I. Petrin and G. A. Kurov</u> . . .	(E) 634	754
Some Features in the Production of Germanium Films by the "Sandwich" Method in a Closed System. <u>B. S. Kurbatov, E. V. Rakova, and G. A. Kurov</u>	(E) 636	756
Growing Doped Needle and Ribbon Crystals of Gallium Phosphide from the Gas Phase. <u>V. N. Maslov and M. P. Shaforostov</u>	(E) 638	758
A Study of Dislocations in Single Crystals of Synthetic Corundum. <u>S. A. Medvedev, E. F. Kustov, and P. A. Arsen'ev</u>	(E) 640	760
Some Optical Parameters of Alkali Vanadates. <u>M. P. Glazyrin</u>	(E) 642	761
The Complex Dielectric Constant of RbH ₂ PO ₄ Over the Range 8 · 10 ³ to 3.86 · 10 ¹⁰ cps. <u>I. S. Zheludev and Ts -Zh. Ludupov</u>	(E) 645	764
Triboluminescence in LiF Crystals Damaged by a Laser Beam. <u>L. M. Belyaev, V. V. Nabatov, Yu. V. Pisarevskii, and Yu. V. Shaldin</u>	(E) 647	767
Attachment to the URS-50IM Diffractometer for Measuring Diffuse X-Ray Scattering at High Temperatures. <u>A. A. Katsnel'son and I. I. Popova</u>	(E) 649	769

Available From American Institute of Physics
Vol X, No 5, Mar/Apr 1966

SOVIET PLASTICS

A cover-to-cover translation of the monthly Russian journal
"Plasticheskie Massy," an organ of the State Committee
on Chemistry of the USSR Council of Ministers

Being a translation of *Plasticheskie Massy* No. 1, 1965

No. 1

CONTENTS

JANUARY, 1966

Main tasks of plastics industry in 1965. V. M. Kataev	6	(1)
ADDITION POLYMERS		
Production and conversions of oligomers obtained by dehydrochlorination of chlorinated paraffin wax. A. A. Berlin and S. I. Bass	8	(3)
Copolymerisation of 3,3'-bis(chloromethyl)oxacyclobutane with oligomer epoxides. G. L. Popova, I. P. Khoroshilova and G. L. Khromov	12	(7)
Effect of ionising radiation on polypropylene in the presence of various stabilisers. P. A. Kirpichnikov and L. D. Romanova	13	(8)
CONDENSATION POLYMERS		
Study of the reaction of anionic polymerisation of ϵ -caprolactam by changes in the electrical resistance of the melt. N. I. Antropova, K. N. Vlasova, G. I. Pavlova, A. V. Samokhvalov, A. V. Sharova and N. Ya. Parlashkevich	17	(12)
Plasticisation of polyarylate. A. A. Askadskii	19	(14)
Hardening of epoxy resins by means of α , β -dipiperidyl. Yu. N. Forostyan, A. I. Golubova and V. S. Kotsur	21	(16)
HETEROORGANIC COMPOUNDS		
Resistance to hydrolysis of certain organosilicophosphorus compounds. M. L. Galashina, M. V. Sobolevskii and T. P. Alekseeva	22	(18)
Zone melting of octamethyltetracyclosiloxane. A. G. Anikin, G. M. Dugacheva and N. V. Avramenko	24	(20)
PROCESSING METHODS		
Injection moulding of polyformaldehyde. E. A. Millitskova, E. S. Viktorov, A. D. Sokolov and V. P. Kostikov	28	(23)
Study of the influence of moulding conditions of thermosetting plastics on strength properties of articles. A. D. Sokolov and I. F. Kanavets	31	(27)
PROPERTIES AND USES OF PLASTICS		
X-ray study of irradiated polyamides. A. M. Afanas'ev, S. A. Pavlov, B. I. Zverev and V. L. Karpov	36	(33)
Breakdown of glass fibre in heat ageing of a GRP based on organosilicon resin. Yu. V. Sherdev and A. Ya. Korolev	39	(36)
Antifriction properties of PTFE filled with ground coke. S. N. Ganz and V. D. Parkhomenko	42	(40)
Radiation degradation of certain ion-exchange resins. Lou Yun-Shang, I. A. Kuzin, A. M. Semushin and N. I. Rtishchev	44	(41)
RAW MATERIALS FOR PLASTICS		
Production of 5-aminomethyl-2-furancarboxylic acid and its butyl ester. N. N. Shmagina and P. A. Moshkin	49	(45)
Preliminary processing of asbestos as a plastics filler, and its sorption properties. A. B. Davydov and Z. G. Ivanova	50	(46)
ANALYSIS AND TEST METHODS		
Measuring the viscosity of undiluted solutions of polymers by an ultrasonic viscometer. N. Ya. Parlashkevich and I. N. Kogan	53	(49)
Controlling the ageing of plastics by non-destructive mechanical testing methods. A. M. Nikol'skoi, I. B. Kuznetsova and G. O. Tatevos'yan	56	(52)
EXCHANGE OF EXPERIENCE		
Foam formation in PVC pastes. Effect of moisture and surface-active substances on the stability of the foam. A. V. Danilova and O. G. Tarakanov	61	(58)
Adhesion to metals of polymer films with fine-particle fillers. I. L. Edel'man, M. L. Barabash and E. P. Glovatskaya	62	(59)
Electrostatic effect in friction of synthetic polymers against metal surfaces. V. N. Egorov	64	(62)
PLASTICS ABROAD		
Various notes	Abstract	(65)
NEWS ITEMS		
Exhibition of Achievements of the National Economy of the USSR. EVI-57-PL electrical rotation viscometer. Anon.	67	(68)
Conference on hygiene and toxicology of high-molecular compounds, Leningrad, March, 1964. I. L. Krynskaya	69	(69)
New standards for plastics. Anon.	Abstract	(71)
BIBLIOGRAPHY		
New literature on polymeric materials. Anon.	Abstract	(73)

Numerals in parentheses refer to the pages of the Russian original

Available From The Rubber and Plastics Research Association of Great Britain
No 1, 1966

SOVIET PLASTICS

A cover-to-cover translation of the monthly Russian journal
 "Plasticheskie Massy," an organ of the State Committee
 on Chemistry of the USSR Council of Ministers

Being a translation of Plasticheskie Massy No. 2, 1965

No. 2

CONTENTS

FEBRUARY, 1966

Development of plastics processing industry.	Abstract	(1)
ADDITION POLYMERS		
Graft polymerisation of methyl methacrylate and of styrene with amber. S. R. Rafikov and G. K. Serganova	6	(4)
Influence of degree of conversion in mass polymerisation of vinyl chloride on the physicochemical properties of the polymer. I. B. Kotiyar and A. M. Sharetskil.	9	(7)
Polydispersity and structure of ethylene-propylene copolymer. L. F. Shalaeva, N. M. Domareva, I. N. Andreeva, L. N. Veselovskaya, I. I. Nikolaeva and A. L. Gol'denberg.	11	(9)
CONDENSATION POLYMERS		
Synthesis of poly(ethyleneglycol fumarate) phenylphosphonate and its copolymerisation with vinyl monomers. S. S. Spasskii, V. I. Kodolov, A. I. Kopylov, N. A. Obolonskaya and A. I. Tarasov.	15	(13)
Stabilisation of polyethyleneterephthalate. I. I. Levantovskaya, B. M. Kovarskaya, I. A. Novoselova, A. A. Berlin, S. I. Bass, O. A. Klapovskaya, B. S. Gracheva and N. V. Andrianova.	17	(15)
SK-9F fibre-glass laminate based on phenol-organosilicon resin. B. A. Kiselev.	19	(17)
HETEROORGANIC COMPOUNDS		
Three-dimensional polycondensation. K. A. Andrianov and V. N. Emel'yanov.	24	(22)
Investigation of thermal decomposition of polychloroorganosiloxane polymers. I. F. Bogdanov, G. V. Grebenshchikova, V. B. Losev, M. L. Mischenko, B. V. Molchanov and I. L. Farberov.	28	(26)
PROCESSING METHODS		
Analysis of certain methods of applying thin-layer polymer coatings. V. A. Belyi, O. R. Yurkevich and L. L. Mirokovich.	31	(28)
PROPERTIES AND USES OF PLASTICS		
X-ray study of modified polyamides. A. M. Afanas'ev, S. A. Pavlov, V. L. Karpov and B. I. Zverev.	35	(32)
Effect of structure of a polyamide on its abrasion resistance. E. A. Fedorchuk.	38	(35)
Physico-chemical stability of solutions based on furfural-acetone monomer. N. A. Moshchanskii and I. B. Uvarova.	40	(37)
Dependence of mechanical properties of elastic cellular PVC on apparent density. Yu. N. Polyakov, Yu. A. Antsupov and O. G. Tarakanov.	43	(41)
Comparative low-temperature resistance of plastic film materials. I. I. Siani and G. I. Kutyatin.	45	(43)
Use of polymer films for separating components of liquid homogeneous mixtures. Yu. K. Dytner'skil, M. N. Panfilov and V. N. Golovin.	46	(44)
EQUIPMENT FOR PLASTICS PRODUCTION		
Calculation of elastic after-effect in designing a die for extruding thermoplastics. Ya. B. Kaplun and A. N. Levin.	48	(46)
ANALYSIS AND TEST METHODS		
Determination of degree of purity of styrene by an indirect potentiometric method in a non-aqueous medium. A. P. Kreshkov, L. N. Balyatinskaya and Ya. I. Tur'yan.	54	(52)
Ebulliometric determination of the molecular weights of polymers. M. F. Sorokin and V. K. Latov.	56	(54)
Method of determining methoxy groups in polymers of formaldehyde. E. S. Matlina and Yu. I. Vishnyak.	60	(58)
Study of h.p. polyethylene and polyisobutylene on the rotation elastoviscometer. I. V. Konyukh and G. V. Vinogradov.	61	(60)
EXCHANGE OF EXPERIENCE		
Spectrophotometric method of determining residual monomer in polyvinyltoluene. N. N. Grachev and I. B. Petrova.	66	(65)
Rapid method of determining residues of complex catalyst in polyolefins during alcohol washing. A. A. Baram and N. F. Grigor'eva.	67	(66)
Resistance of cellular epoxy plastics to petroleum products. V. D. Valgin, E. A. Vasil'eva, I. V. Shamov and V. A. Sergeeva.	68	(68)
Optical properties of organic glasses. M. M. Gudimov and O. A. Baryshnikov.	70	(69)
Chipboard with linoleum-type facing. E. N. Nan'kovskaya, O. M. Eremenko and O. M. Alimpeva.	71	(70)
PLASTICS ABROAD		
Ionomer—a new thermoplastic material. V. Lapshin.	Abstract	(72)
Flexible tanks of nylon fabric. N. R.	Abstract	(72)
BIBLIOGRAPHY		
"Extrusion of Plastics." Review of new book by E. G. Fisher.	Abstract	(73)
"Chemistry and technology of cellulose derivatives"—Review of new book. Anon.	Abstract	(73)
New literature on polymer materials. Anon.	Abstract	(74)

Numbers in parentheses refer to the pages of the Russian original

Available From The Rubber and Plastics Research Association of Great Britain
 No 2, 1966

PROBLEMS IN CYBERNETICS

- USSR -

[Following is a complete translation of the Russian-language book Problemy Kibernetiki (English version above), edited by A.A. Lyapunov, Moscow, No 15, 1965, pages 1-292.]

TABLE OF CONTENTS

	Source	Pages
I. General Problems		
On Functional Completeness in calculable Logic, G. P. Gavrilov, Smolensk	5	1
II. The Theory of Control Systems		
Solution of the Problem of Completeness for Systems of Functions of the Algebra of Logic with unreliable Realization, S. G. Gindikin, A. A. Muchnik, Moscow	65	104
On the Problem of Realization of Symmetrical Functions of the Algebra of Logic by Contact Circuits, O. B. Lupanov, Moscow	85	133
Transformations of Finite Automata, V. L. Murskiy, Moscow	100	156
On Minimal Realization of Certain Functions of Systems of Functional Elements, Ye. P. Soprunenko, Moscow	117	181
III. Programming and Computer Experimentation		
Some Considerations in Programming a Chess Game, M. A. Yevgrafov, I. B. Zadykhaylo, Moscow	135	209

(Continued)

Available From Joint Publications Research Service 34423

PROBLEMY KIBERNETIKI
No 15, 1965

<u>TABLE OF CONTENTS (cont.)</u>	<u>Source</u>	<u>Report</u>
On Simulation of Melodies of a Given Style on Digital Computers, D. Kh. Zaripov, Moscow	157	244
IV. Problems in Mathematical Linguistics		
Investigation of Texts Synthesi- zed by a Computer, N. G. Arsent'- yeva, Moscow	201	300
On a Variation of Morphological Analysis and a Method of Realiz- ing it Using a Specialized Com- puter, R. A. Bazmadzhyan, T. K. Dzhanpoladyan, T. M. Ter-mikael- yan, Yerevan	208	310
Algebraization of a Set Theory Model of Language, M. Novotnyy (Czechoslovakian SR)	234	341
V. Short Reviews		
Complexity of Recognition of Symmetry in Turing Machines, Ya. M. Barzdin, Novosibirsk	245	356
Construction of a Universal Error Correction Function of Two Input Variables, V.A. Buyevich, Moscow	249	363
On the Existence of Tightly Packed Codes, V. K. Leont'yev, Novosibirsk	253	368
On the Product of Matrix Games, Ye. P. Lipatov, Moscow	259	375
On a Combinatory Problem, Al. A. Markov, Gor'kiy	263	380
Asymptotic Evaluation of the Complexity of a Class of Selec- tion Algorithms, R. G. Nigmatullin, Kazan'	267	385
		(Continued)
Available From Joint Publications Research Service 34423		

PROBLEMY KIBERNETIKI
No 15, 1965

TABLE OF CONTENTS (cont.)

	<u>Source</u>	<u>Report</u>
On Comparison of the Complexity of Realization of Monotonic Functions by Formulae to the Bases (\vee , $\&$) and (\vee , $\&$, $-$), V. Ya. Pivkin, Novosibirsk	275	396

Available From Joint Publications Research Service 34423

TEKHNIKA I VOORUZHENIYE
No 6, 1965

Table of Contents

Keep It Up, Innovators.

V. Prokof'yev. The Sea Is the Best School

Yu. Romanovskiy. Before a Long March

Yu. Tarasyuk. The Ship's Course: the Ocean

E. Kul'nitskiy. Servicing And Repairs at Sea

V. Dem'yanov. A Unit of Innovators

L. Gerasimova. Mechanical Engineer And Submariner

P. Radevich. The Combat Engineer's Formidable Weapons

Armament, Technology And Apparatuses

N. Korytov. The Propellers of Fast Ships

K. Pavlichuk. Automatic Stabilizing Systems

D. Gazin And V. Kozlova. A Relay Computer

V. Smolyakov. A Desalting Installation

M. Volgin and P. Shepet. A Company's Tactical Facilities

Operation, Maintenance And Repair

V. Galinskiy, V. Zamotayev, M. Sobolevskiy, V. Andreyev and G. Sharon.
Protecting Electric Motors

(Continued)

Available From AC8I I-9156
ID 2204071065

ТЕХНИКА И ООРУЖЕНИЕ

№ 6, 1965

Table of Contents -- cont.

Classification of Repair Jobs

A. Zvezdin, B. Sul'din, M. Maryutin, M. Sdvizhkov and M. Kozhevnikov. Something for the Truck Drivers to Think About.	
I. Zhemchuzhnikov. Prevent And Eliminate!	
The Competition Has Been Completed	
Experiment and Initiative.	

Available From ACSI I-9156
ID 2204071065

TEKHNIKA I VOORUZHENIYE
No 10, 1965

TRANSLATION

TABLE OF CONTENTS

	<u>Page</u>
Make Improvements!	3
F. Bondarenko — Defenders Of The Skies Over Moscow	5
F. Petrov — How Weapons Were Forged	16
Armament, Equipment, And Apparatuses	
I. Kravchenko, Yu. Pochkay — Strategic Missiles	24
V. Korneyev — Tracking Systems	34
A. Savchenko, F. Gikranova — Ways And Means To Guard Against The Effects Of Heat	42
Technical Training	
M. Solov'yev, M. Solomenko — How To Perform Maintenance In The Field	51
G. Puzanov — Firing Simulator	56
Operation, Care, Repair	
V. Kolesov — To Avoid Failures	64
V. Gerasimenko, N. Tolmachev, V. Krivenko, B. Krasnoperov, S. Zanis, P. Nesmashnyy — Without Malfunctions	70
B. Brill', D. Vayukhnich, B. Fedorov — Classification Of Types Of Repair	77
K. Arbnazova, Y. Orlova, V. Patrikeyev — Use Of Cellogel To Prevent Corrosion	80
N. Kudryavtsev — Preparation Of Equipment For Winter	83
N. Fhaspekov — An Automatic Device Fills The Need	86
Traffic Safety	92
Tsezary Novitski — Problems Encountered In Field Repair	99
Creativity Of Innovators	
V. Smirnov — Who Should Introduce?	105
Experience And Initiative	107
In The World Of Books	
V. Tokmakov — The Need Remains Unfulfilled	113

Available From ACSI I-9157
ID 2204071165

TSVETNYE METALLY
Vol XXXVII, No 9, 1964

Tsvetnye Metally Non-Ferrous Metals	Table of Contents September, 1964	Vol. 5, No. 9 English Translation
L. F. Spoludenny EMPLOYING THE DEFECT-FREE METHOD OF PRODUCTION, CREATED BY SARA- TOV ENGINEERS, AT THE KUIBYSHEV METALLURGICAL PLANT NAMED FOR V. I. LENIN.....		1 (1)
V. I. Klassen and S. A. Tikhonov ON THE MECHANICAL SEPARATION OF SLIME PARTICLES DURING FLOTATION.....		4 (4)
V. K. Nuzhdin and G. Z. Pyrigorskaya METHODS MAKING COMPLEX USE OF COPPER PY- RITES FROM THE KHUDESSK DEPOSIT.....		9 (9)
S. I. Pol'kin and A. I. Rafenko INFLUENCE OF THE MAGNETIC FIELD ON THE CLOGGING OF FILTER CLOTH.....		11 (10)
N. G. Bobkov COMPARATIVE EVALUATION OF COLLECTORS.....		14 (12)
G. A. Komlev, O. V. Levkovskii and A. V. Shirokov REDUCTION OF LIQUID OXIDIZED COPPER WITH NATURAL GAS.....		15 (13)
P. A. Puzdnikov, V. F. Bogdashov, S. E. Dyn'kina and G. I. Pitirimova OBTAINING COMMERCIAL IRON SPONGE FROM WASTES AND ITS USE FOR CEMENTING COPPER.....		17 (15)
N. I. Gel'perin, V. L. Pebalk, V. N. Rozov, V. G. Zamychlyayev and I. B. Milovanova EXTRACTION PURIFICATION OF NICKEL ELECTROLYTE FROM IRON AND COPPER.....		21 (19)
L. A. Sinev and A. L. Tseft OPTIMUM COMPOSITION OF THE PRODUCTS OF COPPER-NICKEL SMELTING.....		25 (22)
I. M. Rafalovich and L. L. Russo SMELTING FURNACES WITH CYCLONE-TYPE CHAMBERS.....		30 (28)
K. I. Utkin and S. S. Pyshov EXTRACTING NOBLE METALS FROM SODIUM-SILICATE SLAGS...		40 (36)
K. G. Marvelyan, A. A. Khanumiryan, B. V. Mikogoyan and N. G. Stepanyan USING SHLIME MUD AS AN ACTIVE ADDITIVE IN THE DESILICIFICATION OF PREDOMINANTLY ALUMI- NATE SOLUTIONS.....		47 (43)
L. M. Kuchikyan AUTOMATIC MONITORING OF MOISTURE CONTENT IN ALUMINUM HYDROXIDE....		51 (46)
A. I. Lainer and Mai-Ki TWO-STAGE DESILICIFICATION OF PURE POTASSIUM ALUMINATE SOLUTIONS, AT ATMOSPHERIC PRESSURE.....		55 (51)
A. A. Chistyakova SOME DATA ON THE SYSTEM $\text{Na}_2\text{O}-\text{Al}_2\text{O}_3-\text{H}_2\text{O}$		58 (54)
A. A. Sharnin and K. N. Shabalin CORROSION OF CARBON AND STAINLESS STEELS IN BOILING ALKALINE SOLUTIONS.....		64 (60)
E. Bajdoo and M. Mlakei EXAMINING THE OPERATION OF THICKENERS WITH THE AID OF RADIOACTIVE ISOTOPES.....		68 (64)
M. A. Kuvakin and M. D. Bogomolova INVESTIGATIONS ON THE USE OF PITCH-COAL COKE AS A RAW MATERIAL FOR THE MANUFACTURE OF ELECTRODES.....		73 (70)
G. I. Petrov, V. M. Andreev and L. I. Andreeva EFFECT OF THE PHYSICAL PROPERTIES OF GERMANIUM DIOXIDE ON ITS REDUCTION.....		77 (74)
V. A. Garmata, V. S. Ustinov, A. N. Potrun'ko, M. I. Garba and E. A. Arutyunov DESIGN OF A REACTOR FOR REDUCING TITANIUM TETRACHLORIDE.....		80 (76)
G. I. Pogodin-Alekseev and A. A. Syrovatkin ELECTROSLAG REMELTING OF CATHODE COPPER.....		82 (78)
I. N. Kaganovich INFLUENCE OF DEFORMATION CONDITIONS ON PROPERTIES OF TITANIUM ALLOYS WITH MIXED STRUCTURES.....		85 (81)

(Cont.)

Available From Primary Sources
Vol V, No 9, 1964

Table of Contents (Cont.)

E. V. Nagov and L. S. Zeikina PHASE TRANSFORMATIONS IN THE QUARTZITE LINING OF INDUCTION FURNACE HEARTHS.....	89 (85)
T. A. Aleksandrova and I. Ya. Prokhorova BEHAVIOR OF TAMPING COMPOUNDS USED TO LINE CHANNEL-TYPE INDUCTION FURNACES.....	93 (88)
E. M. Lekarenko, G. N. Pokrovskaya and K. P. Chernykh ELECTROSLAG REMELTING OF MONEL METAL.....	95 (90)
A. F. Safronov, V. E. Skrodskii, V. G. Zadorozhnyi and A. V. Degtyarenko EXPERIENCE IN THE INDUSTRIAL APPLICATION OF ELECTROMAGNETIC ROLL-TYPE SEPARATORS FOR THE DRY SEPARATION OF TITANIUM-ZIRCONIUM PRODUCTS.....	97 (92)
V. Borsenko SAMPLER FOR POWDER-LIKE MATERIALS.....	99 (94)
V. N. Pyaguzov and D. M. Prikhodavov EXPERIENCE IN THE USE OF COMPRESSED AIR FOR RAPID ELIMINATION OF THE ANODE EFFECT.....	100 (94)

Note: Numbers in parentheses represent page numbers in Russian original.

RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR.....	Academy of Sciences, USSR.
CPSU.....	Communist Party, Soviet Union.
DAN.....	Proceedings of the Academy of Sciences.
Gintsvetmet.....	State Institute of Non-Ferrous Metals.
GIPKh.....	State Institute of Applied Chemistry.
Giprotsvetmet.....	State Institute for the Design and Planning of Non-Ferrous Metals Industry Establishments.
Giredmet.....	State Rare Metals Scientific Research Institute.
Gosenergoizdat.....	State Power Engineering Publishing House.
GospJan.....	State Planning Committee of the Council of Ministers, USSR.
GOST.....	All-Union Standard.
Gostoptekhsizdat.....	State Scientific and Technical Publishing House of the Petroleum and Mineral-Fuel Industry.
IL.....	Foreign Literature Publishing House.
Izd.....	Publishing House.
L-M.....	Leningrad-Moscow.
LGU.....	Leningrad State University.
Mashgis.....	State Scientific and Technical Publishing House of Literature on Machinery.
Mekhanobr.....	Scientific Research Institute for the Mechanical Concentration of Minerals.
Metallurgizdat.....	State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy.
NTU.....	Scientific and Technical Society.
Sovmarkhos.....	Council of the National Economy.
Tsentr Inform.....	Central Office for Information on Non-Ferrous Metals.
UkrSSR.....	Ukrainian SSR.
VMi.....	All-Union Aluminum and Magnesium Institute.
VUZ.....	Institute of Higher Education.

Available From Primary Sources
Vol. V, No 9, 1964

TSVETNYE METALLY
Vol XXXVII, No 10, 1964

<u>Tsvetnye Metally</u> <u>Non-Ferrous Metals</u>	<u>Table of Contents</u> <u>October, 1964</u>	<u>Vol. 5, No. 10</u> <u>English Translation</u>
TOWARD THE 47TH ANNIVERSARY OF THE GREAT OCTOBER SOCIALIST REVOLUTION.....	1	(1)
S. I. Mitrofanov and M. V. Kurochkina FEATURES OF MOLYBDENITE FLOTATION FROM THE COPPER-MOLYBDENUM ORES OF A SINGLE SITE.....	4	(4)
G. S. Berger SOME FEATURES OF MINERALS FLOTATION WITH OLEIC ACID.....	10	(9)
D. I. Nedogovorov MECHANISM OF SLIME DEPRESSION.....	13	(12)
B. A. Aref'ev RELATIONSHIP BETWEEN PRODUCTIVITY AND CIRCULATING LOAD IN A GRIND- ING UNIT WITH A CLOSED CYCLE.....	17	(16)
V. I. Karmazin and A. A. Babesh EFFECT OF PERIPHERAL SPEED OF A COLLECTING ELECTRODE ON SEPARATION EFFICIENCY.....	19	(17)
I. A. Shoshina and A. L. Rotinyan EFFECT OF IMPURITIES IN A CATHODE DEPOSIT ON THE QUALITY AND PURITY OF ELECTROLYTIC NICKEL.....	22	(20)
V. D. Presnetsov, V. D. Ponomarev, P. F. Panfilov and V. V. Shumakov TREATING REVERBATORY FURNACE DUSTS FROM THE KARSAPAI COPPER SMELTER.....	28	(26)
Yu. S. Egorov, M. S. Chetvertkov and Yu. A. Slobodin ELECTRODE-BAKING PROCESS IN THE ORE-THERMIC FURNACE, AND ELECTRODE PASTE QUALITY.....	31	(29)
I. A. Yakubovich and O. B. Nevskii COUNTERCURRENT GAS-LIFT MIXERS IN THE HYDROMETALLURGY OF NON-FERROUS METALS.....	35	(33)
T. I. Avdeeva and A. A. Novolodskaya INTERACTION OF POTASSIUM HYDROALUMINOSILI- CATE WITH ALKALINE ALUMINATE SOLUTIONS.....	38	(36)
V. A. Mazel' SOME TECHNOLOGICAL AND ECONOMIC ASPECTS OF CONVERTING KAOLIN, CLAY, AND OTHER ALUMINOSILICATES TO ALUMINA AND CEMENT.....	42	(40)
A. E. Andreev, V. V. Rodyakin, G. M. Vainshtein, V. M. Kargin, E. E. Brodskii, Yu. N. Boiko, V. S. Tkachik and N. P. Khabarova CHANGES IN MAGNESIUM QUALITY DURING THE REFINING PROCESS.....	47	(45)
R. K. Ognev and I. E. Vlasenko THERMAL EXPANSION AND CONTRACTION OF OIL-PITCH IMPREGNATED CARBONACEOUS MATERIALS.....	50	(48)
N. D. Kusakina, A. M. Sigarev and V. V. Zvyagina AN EXAMINATION OF THE GASEOUS ATMOSPHERE IN MULTICHAMBER ROTARY KILNS, USED TO ROAST GRAPHITE BLANKS.....	53	(51)
A. P. Yatsenko, Kh. A. Kuruschin and V. L. Zolotavin OBTAINING PURE VANADIUM PENTOXIDE IN THE HYDROLYSIS OF INDUSTRIAL SOLUTIONS.....	57	(54)
R. A. Sandler, Kh. A. Strelets, V. A. Garmata, V. V. Rodyakin, E. A. Arutyunov, A. N. Petrun'ko and I. I. Sokolov EFFECT OF THE RATE OF TITANIUM TETRACHLORIDE DELIVERY INTO A REACTOR ON THE INDICES OF THERMAL REDUCTION BY MAGNESIUM.....	61	(58)
Yu. F. Shevakin and E. V. Molodchinin EXAMINING THE ROLLING OF TUBES FROM ALLOY AMG6.....	64	(61)
D. I. Lainer and A. K. Kurakin REACTION DIFFUSION IN PRODUCING THE BIMETAL ALUMINUM-COPPER.....	67	(63)
M. F. Kazakov, A. V. Krivoshei, E. G. Sudenkov, V. I. Sokolov, M. M. Kasatkin, L. A. Lyubenko and A. V. Bodayko DIFFUSION WELDING OF THERMOBIMETALS IN A VACUUM..	70	(66)
V. I. Grishin and A. D. Grishina SPOT WELDING OF NIOBIUM.....	72	(67)
V. S. Sinel'nikova PRODUCING ALUMINIDES OF REFRACTORY METALS.....	74	(69)

(Cont.)

Available From Primary Sources
Vol V, No 10, 1964

TSVETNYE METALLY
Vol XXXVII, No 10, 1964

Table of Contents (Cont.)

S. I. Chernykh INCREASING THE EFFICIENCY OF CONCENTRATING POLYMETALLIC ORES FROM THE GYUMUSHLUG DEPOSIT.....	79 (73)
V. C. Evdokimov CERTAIN FEATURES OF THE GRANULATION PROCESS.....	80 (74)
G. I. Kosilov CYCLOHEXANOL— A CRESOL SUBSTITUTE.....	82 (75)
R. M. Shuidullin and A. L. Kaluzhskikh EXPERIENCE IN THE OPERATION OF LAMINATED-WOOD BEARING LINERS (BACKINGS) FOR ORE GRINDING MILLS.....	83 (76)
S. I. Chernykh AN IMPROVED DESIGN FOR FLOATING BEARINGS OF AKINS SPIRAL CLASSIFIERS.....	87 (79)
A. A. Tseidler QUESTIONS CONNECTED WITH THE ARTICLE, "COPPER PYROMETALLURGY ABROAD," BY L. M. GAZARYAN.....	88 (80)
Ya. Shein ALL-UNION CONFERENCE ON WAYS TO MAKE FURTHER TECHNICAL PROGRESS IN NICKEL PRODUCTION.....	91 (82)
READERS OF THE JOURNAL, "TSVETNYE METALLY",,,.....	96 (86)
YURII VENIAMINOVICH CHUGUEV.....	99 (88)
V. I. Beregovskii NEW PROCESSES OF NICKEL AND COBALT RECOVERY.....	100 (89)
B. V. NICKEL METALLURGY IN JAPAN.....	101 (89)
A. S. Pen'ko IMPROVING THE SHAFT FURNACE PROCESS OF PRODUCING ZINC.....	103 (92)
A. P. Kalinina REVIEW OF THE BOOK, "DETERMINING AND UTILIZING PRODUCTION RESERVES IN NON-FERROUS METALLURGY," BY A. KH. BENUNI.....	106 (93)

Note: Numbers in parentheses represent page numbers in Russian original.

RUSSIAN ABBREVIATIONS IN TEXT

AN SSSR.....	Academy of Sciences, USSR.
CPSU.....	Communist Party, Soviet Union.
Gintsvetmet.....	State Institute of Non-Ferrous Metals.
Gosp'an.....	State Planning Committee of the Council of Ministers, USSR.
GOST.....	All-Union Standard.
Mashgiz.....	State Scientific and Technical Publishing House of Literature on Machinery
Mekhanobr.....	Scientific Research Institute for the Mechanical Concentration of Minerals.
Metallurgizdat.....	State Scientific and Technical Publishing House of Literature on Ferrous and Non-Ferrous Metallurgy.
NTO.....	Scientific and Technical Society
SNKh.....	Council of the National Economy.
TsIIN TsM.....	Central Office for Information on Non-Ferrous Metals.
TsNIGRI.....	Control Scientific Research Institute of Geological Survey.
VAMI.....	All-Union Aluminum and Magnesium Institute.
VUZ.....	Institute of Higher Education.

Available From Primary Sources
Vol V, No 10, 1964

CONTENTS

	Page
To the October Holiday -- a Worthy Meeting	4
V. Koptev -- The Rounded Development of Transportation	9
M. Ivanov -- The Twenty Fifth Anniversary of Our Journal	15
<u>Combat Training and Troop Indoctrination</u>	
S. Sevost'yanov -- Ideological Hardening -- the Foundation of Firm Discipline.	22
I. Zakovorotniy, V. Zaytsev -- Cadres Decide the Success of the Matter	27
I. Babenko, B. Shkibtan -- Komsomol Members -- Leaders in Socialist Competition	32
K. Tosenko -- Do Not Allow Slackening or Vulgar Simplification in Training	37
N. Rynza -- The Driver and the Senior Individual on a Vehicle	40
P. Karpovich -- The Operation of the Rear under Conditions of a Hot and Humid Climate	42
<u>We Discuss the Article "The Role and Place of the Rear Services Officer in Combat"</u>	
M. Smirnov -- The Senior Doctor of a Regiment	47
<u>Leading People of the Army and Navy Rear Services</u>	
I. Troitskiy -- The Command of the Times	51
<u>Supply and Everyday Life of the Troops</u>	
A. Silenchuk -- The New Territory of an Aviation Garrison	56
V. Lebedev -- Attention to the Book Trade	63
A. Bernikov, F. Petrov -- The Storage of Property Made from Polymers	66
S. Gusev -- Military Truck Drivers in General Formation	71
G. Babkin -- Qualification Classes of Cooks	73
<u>Advice and Recommendations</u>	
V. Dyadyusha -- The Construction of Artificial Water Reservoirs	76
<u>Routes of Communication and Means of Transportation</u>	
Ye Dobromyslov -- For Timely Completion of the Repair of Spur Lines	80
B. Maslov -- Let Us Prepare for Winter	84
The Movement of New Inductees and Personnel Being Released from the Service (Survey of Letters)	87

(Continued)

TYL SNAEZHENIYE SOVETSKIKH VOORUZHENIYKH SIL
No 10, 1965

Equipment of the Rear Services and Technical Support

- N. Gasparov -- The Mechanization of Operations at a Field Ammunition Depot 90
- The Creative Work of Innovators: A. Shlyapnikov -- The Search for That Which Is New Is Open to Everyone; D. Odintsov -- Tangible Results; V. Shurygin -- The Ground Was Stabilized with Cement 96

Notes and Letters

- I. Minakov -- We Protect Public Property; K. Nikolayev -- Where Are Standard Blocks Made? I. Usvitskiy -- Do Something about Supplying Tools 107

Among Our Friends

- F. Vedmed' -- In the Interest of Improving the Training of the Rear Services (according to an article in the journal of the Polish Army Pseglend Kwtermistsowsky) 109

In the Armies of the Capitalist Countries

- N. Andreyev -- The Rear Services of the Bundeswehr (not translated)

Criticism and Bibliography

- M. Ivanov -- "Your Heroes, Leningrad" 113
- V. Rudenskiy -- "At an Unequipped Shore" (Movie) 116
- According to the Materials of Our Journal 119
- Thematic Plan of the Journal Rear Services and Supply of the Soviet Armed Forces for 1966 120

Available From ACSI I-8916
ID 2204066165

**ZHURNAL ANALITI-
CHESKOI KHIMII
EDITORIAL BOARD**

I. P. Allmarin
(Editor-in-Chief)
A. K. Babko
A. I. Busev
(Secretary)
P. N. Palei
D. I. Ryabchikov
(Assistant Editor)
Z. F. Shakhova
I. V. Tananaev
A. P. Terent'ev
A. P. Vinogradov
Yu. A. Zolotov

JOURNAL OF
**ANALYTICAL
CHEMISTRY**
OF THE USSR

A translation of ZHURNAL ANALITICHESKOI KHIMII,
a publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York, N. Y. 10011

Volume 20, Number 6

June, 1965

CONTENTS

	P A G E	
	ENG.	RUSS.
Effect of Particle Size and Fractional Evaporation of the Elements on Spectral Line Intensity on Injecting Powders into ARC Plasma—A. K. Rusanov and N. T. Batova	507	649
The Mutual Influence of the Alkali Metals During Their Flame Photometric Determination. Communication 2—T. F. Borovik-Romanova	612	655
Solvent Extraction of Chelate Compounds of the Elements with 1-Phenyl-3-methyl-4-isenzoylpyrazolone-5. Extraction of Calcium—Yu. A. Zolotov and V. G. Lambrev	615	659
New Reagents for Zirconium—A. I. Cherkasov and Yu. V. Pushinov	621	665
The Effect of Chemical Reactions on the Evaporation Time of Tin from the Crater of a Carbon Electrode—G. I. Zavorotnova	626	671
New Photometric Method for Determining Niobium and Tantalum in Metals and Alloys. Communication 4. A Study of the Niobium Complex with 1-(2-Pyridylazo)resorcinol in the Presence of Oxalate and Tartrate Ions and Other Addenda—S. V. Ellinson, L. I. Pobedina, and A. T. Rezova	630	676
Catalytic Reduction Waves of the Peroxide Complex of Niobium in a Sulfuric Acid Supporting Electrolyte—R. K. Sharipov and O. A. Songina	636	683
The Polarographic Behavior of Germanium in the Presence of Alizarin Red S—I. A. Tserkovnikaya and V. N. Epimakov	641	686
Determination of Nitrogen in Metals by an Isotopic Dilution Method—K. B. Orolova and E. N. Vitol'	646	694
The Sensitivity of the Phosphorescent Determination of Oxygen in Gases—I. A. Zakharov and V. B. Aleksovskii	661	700

(Continued)

Annual Subscription: \$135

Single Issue: \$30

Single Article: \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York, N. Y. 10011, U.S.A.

ZHURNAL ANALITICHESKOI KHIMII
Vol XX, No 6, 1965

P A G E
ENG. | RUSS.

Amperometric and Visual Titration of Chlorides, Bromides, and Thiocyanates with Potassium Nitrate in Anhydrous Acetic Acid—A. P. Kreshkov, V. A. Bork, L. A. Shvyrkova, and M. I. Aparsheva	655	704
Mass-Spectrographic Analysis of Solids—M. S. Chupakhin and D. V. Kormilitsyn	660	709
Quantitative Elemental Analysis of Organic Compounds. Microdetermination of Carbon and Hydrogen by Combustion in a Wide Capsule—N. É. Gel'man and N. S. Sheveleva	671	719
Polarographic Determination of Allyl Alcohol—G. P. Tikhomirova and S. L. Belen'kaya	678	727
Spectropolarimetric Analysis. Communication 5. Determination of p-Methoxybenzaldehyde in the Presence of the Ortho Isomer—V. M. Potapov, A. P. Teren'tev, and G. P. Moiseeva	681	73
Determination of Halogenated Anthraquinones in the Presence of Amino Derivatives of Anthraquinone by a Polarographic Method—V. D. Bezuglyi, L. Ya. Kheifets, and E. A. Preobrazhenskaya	684	733
Gas-Liquid Chromatographic Determination of Glycerol—V. N. Balakhontseva and R. M. Poltinina	689	739
BRIEF COMMUNICATIONS		
A Study of the Precipitation of Calcium as Molybdate by Means of Phototurbidimetric Titrations—K. F. Kharitonovich and M. L. Chepelevetskii	693	743
Determination of Samarium, Gadolinium, Dysprosium, Erbium, and Scandium (0.01-0.6%) in Steels and Alloys by a Chemico-Spectrographic Method—A. A. Fedorov and N. N. Sorokina	696	745
Determination of Boron in Some Natural Materials by Means of Salicylic Acid and Crystal Violet—A. E. Vasilevskaya and L. K. Lenskaya	699	747
Microdetermination of Carbonate from the Volume of Carbon Dioxide Liberated—D. S. Gorbenko-Germanov and R. A. Zenkova	702	745
A Radiometric Study of the Distribution of Chlorine Between the Liquid and Gaseous Phases of Concentrated Nitric Acid—V. A. Kachanov	704	751
Rapid Iodometric Determination of Phosphite—P. K. Norkus, A. M. Lunyatskas, and S. P. Tsarankute	707	753
Determination of Methoxy and Cyanoethoxy Groups in Each other's Presence—M. P. Kozlov and I. I. Ermilova	710	755
The Analysis of Chlorophenylisocyanates by Gas Liquid Chromatography—Yu. A. Strepkheev, R. A. Semenova, and A. N. Ushakov	712	757
Spectrophotometric Determination of Allyl Alcohol—A. G. Sokolov and N. D. Klyueva	714	759
Photometric Determination of Small Amounts of Pyridine—R. V. Gorskaya and N. T. Yarym-Agaeva	715	760
CRITICISM AND BIBLIOGRAPHY		
J. Bercik and J. Tölgyessy. Potenciometria	717	762
New Books and a Review	718	763
INFORMATION		
The Sixtieth Birthday of Fedor Mikhailovich Shemyakin	719	764
Moscow Seminar on Analytical Chemistry	721	765

The Russian date "Podpisano k pechatu" of this issue was 6/3/1965. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

CONTENTS	Page	Russian Reference
Visual Observation of Infrared Laser Emission. (E)	513	48, 777
Investigation of a Neon-hydrogen Laser at Large Discharge Currents. (E)	515	48, 779
The Spectrum and Temporal Characteristics of Stimulated Emission in $\text{CaF}_2:\text{Sm}^{2+}$. (E)	517	48, 782
Shape of the Resonance Absorption Spectra of 13.8 keV γ Rays from $\text{Sn}^{119\text{m}}$ in Tin Oxide and Metallic White Tin. (E)	524	48, 791
Electrical Conductivity of Dilute Solutions of Transition Metals in Platinum. (E)	527	48, 796
Stabilization of a Helical Instability in an Electron-hole Plasma in a Semiconductor by an Alternating Electric Field. (E)	530	48, 800
Experiments on Ion Heating in a Magnetic Mirror Trap by an Alternating Electric Field. (E)	533	48, 804
Macroscopic Domains in High-coercivity Alloys with Single-domain Magnetic Structure. (E)	539	48, 814
Influence of the Structural State on the Superconducting Properties of Zirconium Alloys Containing 20 to 25% Niobium. (E)	543	48, 818
Optical Properties of Lead at Low Temperatures. (E)	548	48, 825
Charge Exchange of Protons and the Dissociation of H_2^+ and H_3^+ Ions in Helium and Neon. Accompanied by the Formation of Fast Hydrogen Atoms in Excited States. (T)	554	48, 833
Study of Tin by the Tunnel Effect Method. II. (E)	557	48, 837
Emission of Monopulses of Coherent Light by a Two-component Medium with Negative Absorption. (E)	563	48, 845
Kinetics of Induced Relaxation. (T)	567	48, 850
On the Motion of the Magnetic Moment. (T)	574	48, 860
Nonuniform Resonance in an Antiferromagnetic Plate. (T)	576	48, 864
Spin-lattice Paramagnetic Relaxation and the Shape of EPR Lines in a Magnetically Dilute Solid. (T)	580	48, 869
Electromagnetic Oscillations in a Resonance Medium. (T)	587	48, 879
Behavior of a Plasma with Large Radiation Pressure in a Strong Electric Field. (T)	594	48, 890
Plasma Oscillations in a High-frequency Electric Field. (T)	601	48, 901
Interaction of Negative-energy Waves in a Weakly Turbulent Plasma. (T)	608	48, 913
Electromagnetic Radiation from a Neutron in an External Magnetic Field. (T)	613	48, 921
Possibility of Oscillating Distributions of Turbulent Sound Waves in a Plasma. (T)	617	48, 926
Resonance Phenomena in Nonlinear Optics. (T)	619	48, 931
Electron Exchange and Changes in the Hyperfine State of Colliding Alkaline Metal Atoms. (T)	624	48, 939
Photon Emission in Muon-pair Production by Electron-positron Collision. (T)	629	48, 946
The Bethe-Salpeter Equation and Role of "Central" Interactions. (T)	633	48, 952
Excitation of Atoms by Electrons and Broadening of Spectral Lines. (T)	642	48, 965
Effect of Anharmonicity on the Phonon Spectrum near a Point of Degeneracy. (T)	646	48, 971

(Continued)

Available From the American Institute of Physics
 Soviet Physics JETP
 Vol XXI, No 3, Sept 1965

ZHURNAL EKSPERIMENTAL'NOI I TEORETICHESKOI FIZIKI
Vol. XLVIII, No 3, 1965

CONTENTS—continued

	Page	Russian Reference
LETTERS TO THE EDITOR		
On the Possibility of Stimulated Emission in the Far Ultraviolet. (T)	649	48, 975
..... P. A. Bazhulin, I. N. Knyazev and G. G. Petrash.		
Experimental Observation of the Tunnel Effect for Cooper Pairs with the Emission of Photons. (E)	650	48, 976
..... I. K. Yanson, V. M. Svistunov, and I. M. Dmitrenko		
Magnetostriction of Rare-earth Ferrite Garnets at Low Temperatures. (E)	652	48, 979
..... K. P. Belov and V. I. Sokolov		
Behavior of the Specific Heat C_v of Pure Substances Near the Critical Point. (E)	653	48, 981
..... A. V. Voronel', V. G. Snigirev, and Yu. R. Chashkin		
A Possible Method for Studying Fermi Surfaces. (T)	655	48, 984
..... Yu. V. Sharvin		
Magnetic Model of the Universe. (T)	656	48, 986
..... Ya. B. Zel'dovich		
Coherent Radio Emission from Cosmic Showers in Air and in Dense Media. (T)	658	48, 988
..... G. A. Askar'yan		
On the Anomalous Temperature Dependence of the Resistivity of Non-magnetic Metals with a Weak Concentration of Magnetic Impurities. (T)	660	48, 990
..... A. A. Abrikosov		
Radiative Corrections to Pair Photoproduction. (T)	661	48, 992
..... P. I. Fomin		

Available From the American Institute of Physics
Soviet Physics JETP
Vol. XII, No 3, Sept 1965

ZHURNAL OBSHCHEI KHIMII
EDITORIAL BOARD

A. E. Arbutov
S. N. Danilov (*Editor-in-Chief*)
N. A. Domnin (*Assistant Editor*)
I. S. Ioffe
E. D. Kaverzneva
K. P. Mishchenko
V. V. Perekalin
A. A. Petrov
B. A. Porai-Koshits
S. A. Shchukarev
M. M. Shemyakin
E. D. Venus-Danilova
A. A. Vvedenskii
Yu. K. Yur'ev
A. I. Zakharova (*Secretary*)

JOURNAL OF
**GENERAL
CHEMISTRY**
OF THE USSR

*A translation of ZHURNAL OBSHCHEI KHIMII
a publication of the Academy of Sciences of the USSR*

©1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N.Y.

Volume 35, Number 3

March, 1965

CONTENTS

	P A G E	
	ENG.	RUSS.
Corresponding Reaction Temperatures—V. A. Kireev	409	409
Investigation of the Hydrogen Bond in 1-Phthalanols by Infrared Spectroscopy —I. G. Savich, T. G. Melent'eva, and L. A. Pavlova	414	415
Studies of the Catalytic Activity of Systems Consisting of a Hydrogen Acid and an Aprotic Acidlike Substance by the Deuterium-Exchange Method: The System Acetic Acid—Stannic Chloride—A. I. Shatenshtein, A. P. Sannikov, and P. P. Alikhanov	418	419
Study of the Molecular Interaction of Amic Acids by Infrared Spectroscopy —N. S. Antonenko	424	425
Donor-Acceptor Interaction and Electronic Absorption Spectra. I. Complex Formation of Mononitrophenols—G. L. Ryzhova, T. A. Rubtsova, and B. V. Tronov . . .	428	429
Reactions of Acetylenic β -Glycols. V. Synthesis of Chloro Acetoxy Compounds from Glycols, and Study of Their Reaction with Alkali—T. A. Favorakaya and Yu. M. Portnyagin	433	435
Reactions of Acetylenic β -Glycols. VI. Effect of the Relative Positions of the Functional Groups in the Molecules of Chloro Esters Derived from Acetylenic β -Glycols on Their Reaction with Alkali—T. A. Favorakaya and Yu. M. Portnyagin	437	440
Condensation of Aldehydes with Ketones. XIV. Alkaline Condensation of 1,5-Diaryl-1,5-Pentanediones with Formaldehyde—M. N. Tilichenko	440	443
Addition of Organoaluminum Compounds at Multiple Bonds. II. Addition of Diisobutylhydraluminum to 3-Alken-1-Ynes—V. V. Markova, V. A. Kormer, and A. A. Petrov	445	447
Synthesis and Some Physical and Chemical Properties of 3-Alken-1-Ynylgermanes —M. D. Stadnichuk and A. A. Petrov	448	451
Polymethylene Rings. XL. Action of Lithium and Sodium on 2,3-Dibromo-1,3- Cyclohexadiene—N. A. Domnin, T. A. Rakova, and V. A. Cherkasova	453	456

(Continued)

Annual Subscription \$135

Single Issue \$30

Single Article \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York, N.Y. 10011, U.S.A.

	PAGE	RUSS. PAGE
Synthesis and Reactions of Unsaturated Organogermanium Compounds . Synthesis and Reactions of Some Monohydric Organogermanium Diacetylenic Alcohols Containing Isolated Triple Bonds—I. A. Shikhiev, I. A. Aslanov, and N. T. Mekhmandarova	456	459
Addition of Hydride Silanes to Dichloro-Alkenes and -Alkynes—M. A. Mamedov, I. M. Akhmedov, M. M. Guseinov, and S. I. Sadykh-zade	458	461
Synthesis of Silicon-Containing Cyclic Acetals—M. F. Shostakovskii, A. S. Atavin, B. A. Trofimov, and E. P. Vyalykh	462	466
Conversion of Thiosulfuric Acid into Pentathionic Acid in Presence of (2-Alkoxyethyl)Diisopentylammonium Ions—N. P. Volynskii and N. K. Druzhinina	465	469
2,3-Difluoroacrylic Acid and Its Derivatives—A. Ya. Yakubovich and A. P. Sergeev	468	471
Chlorination of Some Alkylene Sulfides—V. S. Étlis, N. N. Trofimov, and G. A. Razuvaev	472	475
Reaction of Thiourea with 3-Halopropionic Acids—V. L. Vasilevskii, T. A. Lebedeva, V. M. Fedoseev, and A. B. Silaev	476	479
Reaction of Triphenylbismuthine with Benzene—G. A. Razuvaev, G. G. Petukhov, V. A. Titov, and O. N. Druzhkov	479	481
Reaction of Trialkylboranes with Benzylmagnesium Bromide—G. E. Kacheishvili, N. I. Pirtskhalava, and G. D. Dzhioshvili	482	484
Methods of Preparation and Properties of Organofluorine Compounds. I. Electrochemical Method for the Preparation of Perfluorinated Tertiary Heterocyclic Amines—S. A. Mazalov, S. I. Gerasimov, S. V. Sokolov, and V. L. Zolotavin	484	485
α, α' -Difluoro- and α, α' -Dichloro-4,4'-Stilbenedicarboxylic Acids—L. M. Yagupol'skii and B. F. Malichenko	489	490
Intramolecular Rearrangements. I. Rearrangement of Aminoalkyl Derivatives of Thiopseudourea and Selenopseudourea—L. V. Pavlova and F. Yu. Rachinskii	492	493
2-Styrylbenzothiazole and Its Derivatives—A. I. Kiprianov and A. Ya. Il'chenko	497	498
Multidentate Formazans. III. Effect of Zinc Ions on the Coupling of o-Quinone Diazides with Acetone—V. M. Dziomko and V. M. Ostrovskaya	502	502
Synthetic Dyes. XLV. Structure and Ultraviolet Spectra of Lepidinium Salts—G. T. Pilyugin, Yu. S. Rozhin, Ya. O. Gorichok, and B. M. Gutsulyak	506	506
Arylcarbenes from Aryllithiums and Methylene Chloride—O. M. Nefedov, V. I. Shiryaev, and A. S. Khachaturov	509	509
Absorption Spectra of Benzo[b]Thiophen-3(2H)-One and Its Derivatives. VII. Benzylidene Derivatives of 5-Nitrobenzo[b]Thiophen-3(2H)-One—M. A. Mostoslavskii and V. A. Izmail'skii	519	520
Cohydrolysis of Dichloromethylvinylsilane with Various Chloroalkylsilanes—K. A. Andrianov, V. I. Sidorov, L. M. Khananashvili, and N. V. Kuznetsova	524	524
Absorption Spectra of Dimerocyanines Derived from 4-Imidazolidinone. III. Infrared Absorption Spectra of the Carbonyl Group—Yu. Sh. Moshkovskii, N. S. Spasokukotskii, M. V. Deichmeister, and L. D. Zhilina	528	528
(Fluorobenzoyl)Phosphorimidic Trichlorides and Derivatives—G. I. Derkach and E. I. Slyusarenko	532	532
Higher Dialkyl (Arylsulfonyl)Phosphoramidates—V. A. Shokol, L. I. Fedotova, A. N. Frolova, and A. V. Kirsanov	534	534
New Types of Arbuzov Rearrangement. XVIII. Addition of Trialkyl Phosphites to 1-Phenyl-1,2-Propanedione—K. M. Kirillova and V. A. Kukhtin	542	544
Transesterification of Some Esters of Tervalent-Arsenic Acids with Alcohols—Gill'm Kamai and R. G. Miftakhova	544	546
Relation of the Reducing Power of Deoxy Sugars to Structure. VIII—M. N. Tul'chinskii	546	549

(Continued)

Available From Consultants Bureau

ZEURNAL OBSHCHEI KHEMII
Vol XXXV, No 3, 1965

	PAGE	RUSS. PAGE
Complex Lipides. Synthesis of L- and DL- α -Phosphatidyl-N, N-Dimethylethanol- amines (L- and DL- α -N, N-Dimethylcephalins) - L. V. Volkova, V. I. Shvets, L. T. Dorofeeva, S. I. Lobanova, N. V. Konstantinova, N. A. Preobrazhenski	547	550
Complex Lipides. Synthesis of the Cephalin α' -Linolenoyl- β -Linoleoyl- α - Glycerolphosphorylethanolamine - V. I. Shvets, S. F. Morozova, L. V. Volkova, and N. A. Preobrazhenskii	551	554
3-Methyl-2-Thiohydantoin Derivatives from Amino Acids. II. Synthesis and Properties of 3-Methyl-2-Thiohydantoin Derivatives from Heterocyclic and N-Methylated Amino Acids and from Monoamino Dicarboxylic Acids and Their Amides - V. F. Krivtsov and V. M. Stepanov	554	556
Compounds Containing Two Electron-Donating Systems. VII. Color Phenomena in Derivatives of O-(p-Nitrocinnamoyl)-N-(Phenylglycyl)-[4-Amino-1-Naphthol] - E. A. Smirnov and E. B. Agracheva	557	559
Potential Antimetabolites. XVI. Reaction of Citrulline with Cyanoacetic Ester - Yu. P. Shvachkin and M. T. Azarova	561	563
Condensation of 5, 6, 7, 8-Tetrahydro-1-Methyl-3-Phenyl-2-Benzopyrylium Perchlorate with Some Aromatic and Heterocyclic Aldehydes - G. N. Dorofeenko, O. E. Shelepin, Z. N. Nazarova, V. N. Novikov, and G. P. Tikhonova	567	570
Synthesis and Properties of Derivatives of Allenic Hydrocarbons. I. Synthesis and Properties of Aliphatic and Aromatic Allenic Alcohols - O. V. Perepelkin, L. N. Cherkasov, V. A. Kormer, and Kh. V. Bal'yan	571	574
Triterpenes from the Bark of <i>Alnus subcordata</i> C. A. M. - L. G. Matyukhina, V. S. Shmukler, and A. A. Ryabinin	576	579
Structure of Grossheimin, A Sesquiterpene Lactone from <i>Grossheimia macrocephala</i> (Muss. - Puschk.) D. Sosn. Et Takht. - K. S. Rybalko and V. I. Sheichenko	578	580
Structure and Properties of Seneciophylline - A. V. Danilova and N. I. Koretskaya	582	584
LETTERS TO THE EDITOR		
Reactions of Silver Perfluoro(3-Methoxypropionate) with Halogens - A. V. Tumanov, V. A. Gubanov, and I. M. Dolgopol'skii	585	587
Character of the Polarization of the Double Bond of Trifluoromethyl Trifluorovinyl Ether - V. A. Gubanov, A. V. Tumanova, and I. M. Dolgopol'skii	586	588
Values of Hammett's σ Constant for Some Carbohydrates - Yu. A. Zhdanov and V. A. Polenov	587	589
Synthesis of Pyrylium Salts by the Condensation of Hydroxymethylene Ketones with Ketones - G. N. Dorofeenko and G. I. Zhungietu	588	589
Reaction of Hydroxymethylphosphonic Acid with Triorganoalkoxysilanes - N. F. Orlov, V. P. Mileshekevich, and E. L. Geft	590	590
Reaction of Carboxylic Esters with Phosphoryl Chloride - S. R. Rafikov, G. N. Chelnokova, and Yu. V. Artemova	591	591

The Russian date "Podpisano k pechatii" of this issue was 2/12/65. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

ZHURNAL OBSHCHEI KHIMII
EDITORIAL BOARD

A. E. Arbuzov
S. N. Danilov (*Editor-in-Chief*)
R. Kh. Freidlina
I. S. Ioffe
E. D. Kaverzneva
I. F. Lutsenko
K. P. Mishchenko
M. S. Nemtsov
A. A. Petrov
S. A. Shchukarev
M. M. Shemyakin
E. D. Venus-Danilova
A. A. Vvedenskii
Yu. K. Yur'ev
A. I. Zakharova (*Secretary*)

JOURNAL OF
**GENERAL
CHEMISTRY**
OF THE USSR

*A translation of ZHURNAL OBSHCHEI KHIMII,
a publication of the Academy of Sciences of the USSR*

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N.Y.

Volume 35, Number 4

April, 1965

CONTENTS

	RUSS. PAGE	PAGE
Synthesis and Reactions of Acetylenic α -Glycols. IX. Molecular Rearrangements Observed in the Reaction of 3,4-Dimethyl-1-Hexyne-3,4-Diol with Hydro- chloric Acid - T. A. Favorskaya, G. M. Tolstopyatov, and M. R. Gal'ding	595	593
Effect of Certain Substances on the Solubility of Benzoic Acid in Alcohol - V. G. Sergeeva and T. G. Chumachenko	599	597
Solubility of p-Toluidine in Aqueous Solutions of Electrolytes and Nonelectrolytes - V. Sergeeva and G. Shabikova	602	599
Interaction in the Ternary System Urea-Hydroquinone-Resorcinol - I. I. Il'yasov, A. G. Palobekov, and A. G. Bergman	605	602
Polarographic Investigation of Unsaturated Ketones. III. Structure and Reactivity of α , β -Unsaturated Aromatic Ketones (Use of Correlation Equations) - V. D. Bezuglyi, V. F. Lavrushin, and G. G. Belous	609	606
Addition of Glycols and Polyethylene Glycols to Butyl Vinyl Ether - M. F. Shostakovskii, A. S. Atavin, B. A. Trofimov, and V. I. Lavrov	615	613
Synthesis and Properties of Derivatives of Allenic Hydrocarbons. II. Synthesis and Properties of Carbocyclic and Heterocyclic Allenic Alcohols - L. N. Cherkasov, V. A. Kormer, and Kh. V. Bal'yan	618	616
Higher Aliphatic Acids. XV. Synthesis of cis, cis, cis-9, 12, 15-Octadecatrienoic (Linolenic) Acid - A. A. Kraevskii and N. A. Preobrazhenskii	620	618
Alkoxy Compounds. XIV. Analysis and Catalytic Dealcoholation of Methyl- (1-Propoxyethyl)Malonic and (1-Isopropoxyethyl)Methylmalonic Acids - A. V. Bogatakkii and G. V. P'yankova	622	619

Annual Subscription: \$135

Single Issue: \$30

Single Article: \$15

*All rights reserved. No article contained herein may be reproduced for any purpose what-
soever without permission of the publisher. Permission may be obtained from Consultants
Bureau Enterprises, Inc., 227 West 17th Street, New York, N.Y. 10011, U.S.A.*

CONTENTS

	PAGE	RUSS. PAGE
Hofmann Cleavage of 6,9-Diazoniadispiro[5.2.5.2]Hexadecane Dichloride with Methanolic Potassium Hydroxide - M. V. Rubtsov, L. N. Yakhontov, and E. E. Mikhlin.	624	621
Oximes of 2-Cyclohexen-1-One - O. D. Strizhakov, E. N. Zil'berman, and S. V. Svetozarskii.	631	628
Perchloric Acid and Its Compounds as Catalysts in Organic Synthesis. XXI. 2,4,6-Triphenylpyrylium Salts with Functional Substituents in the Aromatic Nuclei - G. N. Dorofeenko, S. V. Krivun, and V. V. Mezheritskii.	635	632
Reaction of Complex Aluminum Acetylides (Tetra-1-Alkynylaluminates) with Carbonyl Compounds - V. V. Gavrilenko, L. L. Ivanov, and L. I. Zakharkin.	638	635
7-Oxabicyclo[2.2.1]Hept-2-enes and -enes. XX. Acetoxymercuration of Dimethyl 7-Oxabicyclo[2.2.1]Hepta-2,5-Diene-2,3-Dicarboxylate - N. S. Zefirov, L. P. Prikazhnikova, and Yu. K. Yur'ev.	642	639
Merocyanines Derived from Ozolones. X. Color of Dimethine Merocyanine Quaternary Salts - Z. P. Sytnik, M. V. Deichmeister, R. A. Gershtein, and L. D. Zhilina.	645	641
Synthetic Dyes. XLVIII. Condensation of 1-Arylquinadinium Salts with [(N-Phenylacetamido)Methylene]Rhodanine - G. T. Pilyugin and S. V. Lepikhova.	651	647
2,4-O-Methylene-DL-Xylitol Tosylates and Their Derivatives - T. I. Orlova, A. N. Anikeeva, and S. N. Danilov.	653	649
Tetracyclines. XL. Michael Reaction with Δ^2 -Tricycline-DCB Derivatives - A. I. Gurevich, M. N. Kolosov, V. G. Korobko, S. A. Popravko, and M. M. Shemyakin.	655	652
Tetracyclines. XLI. Synthesis of 11,12a-Dideoxy-4-De(Dimethylamino)-6-Demethyl-5a,6-Anhydrotetracycline - M. N. Kolosov, V. V. Onoprienko, and M. M. Shemyakin.	662	659
Tetracyclines. XLII. Synthesis of 11,12a-Dideoxy-4-De(Dimethylamino)-5a,6-Anhydrotetracycline - A. I. Gurevich, M. G. Karapetyan, M. N. Kolosov, V. G. Korobko, and M. M. Shemyakin.	670	668
Alloxazine and Isoalloxazine Derivatives. XIII. Synthesis of 7-Aminoalloxazine, 7-Aminodemethylriboflavine, and Their Derivatives - V. M. Berezovskii, L. S. Tul'chinskaya, and N. A. Polyakova.	675	673
Nucleotides, Coenzymes, Phosphoric Esters. VIII. Separation and Hydrolytic Cleavage of Phosphoric Esters of Riboflavine - V. M. Berezovskii, R. V. Artemkina, and M. A. Chernova.	679	677
Preparation of Organomercury Compounds by the Decomposition of Double Arenediazonium-Mercuric Chlorides in Water - A. N. Nesmeyanov, L. G. Makarova, and I. V. Polovyanyuk.	682	681
Some Reactions of Organotin Hydrides - N. S. Vyazankin and V. T. Bychkov.	685	684
Reactions of Dibutyltin with Alkyl Halides - V. T. Bychkov and N. S. Vyazankin.	688	687
Synthesis and Properties of Branched (Dimethylsiloxanyl)(8-Quinolyl)oxy)Titanium Oligomers - K. A. Andrianov, I. A. Lavygin, and Yu. A. Shvetaov.	690	689
Monoorganosilanes. IV. Reactivity of Monoorganosilanes in Reaction with Monocarboxylic Acids - V. O. Reikhsfel'd and V. A. Prokhorova.	694	693
Cohydrolysis of Allyldichloromethylsilane with Methyl- and Ethyl-Dichlorosilanes - K. A. Andrianov, V. I. Sidorov, L. M. Khananashvili, and N. V. Kuznetsova.	698	698

(Continued)

Available From Consultants Bureau

CONTENTS

	PAGE	RUSS. PAGE
Unsaturated Organogermanium Compounds. II. Course of the Bromination of 1,3-Enynic Germa-Hydrocarbons - M. D. Stadnichuk and A. A. Petrov	701	700
Synthesis of Acetylenic Tertiary Phosphine Sulfides - G. M. Gogolyubov and A. A. Petrov,	705	704
Laws Governing Additions to Polyacetylenes. VI. Orientation in the Addition of Hydrogen, Bromine, and Hydrogen Bromide to 1,5-Alkadiynyltri-methylsilanes - M. P. Forost, O. A. Muzovskaya, and A. A. Petrov	708	707
Reaction of Phosphorus Pentachloride with Diphenyl Malonate - N. D. Bodnarchuk, V. I. Shevchenko, and A. V. Kirsanov	714	713
Reactions of N-Aryl-P, P-Bis-1-Aziridinylphosphinic Amides and O-Aryl Bis-1-Aziridinylphosphinothioates with Chlorine and with Hydrogen Chloride - L. D. Protsenko and N. Ya. Skul'skaya	716	715
Reactions of Phosphorus Pentachloride with Isopropylamine and with Alanine - I. N. Zhmurova and B. S. Drach	718	718
Properties of Phosphonic Anhydrides. I. Alkyl (or Aryl) Hydrogen Methylphosphonates - K. A. Petrov, R. A. Baksova, L. V. Korkhoyanu, L. P. Sinogeikina, and T. V. Skudina	723	723
Amides and Anhydrides of Phosphorus Acids. IV. Phosphorylation of Hydroxy Compounds with Acetyl Alkyl N, N-Diethylphosphoramidites - V. P. Evdakov, E. K. Shlenkova, and K. A. Bilevich	727	728
Properties of Phosphonic Anhydrides. III. Reaction of Phosphonic Anhydrides with Olefin Oxides - K. A. Petrov, R. A. Baksova, and L. V. Korkhoyanu	731	732
Complex Compounds of Alkyltetrachlorophosphoranes with Aluminum Chloride, V. Reactions of Complex Compounds of Alkyltetrachlorophosphoranes and Aluminum Chloride with Olefin Oxides and Sulfides - K. V. Karavanov, S. Z. Ivin, and V. V. Lysenko	736	737
Amides and Anhydrides of Phosphorus Acids. V. Reactions of Phosphorous, Phosphonous, and Phosphinous Amides with Acetic Anhydride - V. P. Evdakov, and E. K. Shlenkova	738	739
Synthesis of Salts of O, O-Diaryl Hydrogen Phosphorodithioates and Bis(Bisaryl-oxyphosphinothioyl) Disulfides - M. G. Imaev, S. V. Sokolova, and S. D. Feklyayeva	741	742
Synthesis of Esters of the Salicylic Ester-Anhydride of Phosphorous Acid - P. A. Kirpichnikov, Ya. A. Gurvich, and G. P. Gren	743	744
New Method of Synthesizing Guanamines Containing Fluoroalkyl Groups - A. E. Kretov and A. V. Davydov	745	746
LETTERS TO THE EDITOR		
trans-cis Isomerization of 1,2-Cyclopropanedicarboxylic Acid - I. N. Topchieva, M. Al'etto, and R. Ya. Levina	748	749
Synthesis of Acetylenic Organotin Compounds - M. F. Shostakovskii, V. M. Vlasov, and R. G. Mirskov,	749	750
Catalytic Action of Copper Complex Compounds of α -Amino Acids on the Chemiluminescence of Luminol, and the Chemiluminescence Method for the Microdetermination of α -Amino Acids - A. A. Ponomarenko and L. M. Amelina	750	750
Reaction of Glycol Monovinyl Ethers with Chlorotriethyltin - M. F. Shostakovskii, A. S. Atavin, E. P. Vyalykh, and B. A. Trofimov,	751	751
Reactions of 1-Chloroethyl Methyl Ether with Metal Derivatives of Acetoacetic Ester - T. I. Temnikova and V. V. Takhistov	752	752
Stereochemistry of the Nitroschlorination of Dimethyl 7-Oxabicyclo[2.2.1]Hept-5-Ene-2,3-Dicarboxylate - N. S. Zefirov, P. P. Kadzyauskas, V. N. Bazanova, and Yu. K. Yur'ev	753	752

(Continued)

Available From Consultants Bureau

CONTENTS

	PAGE	RUSS. PAGE
Barenyl Anion - V. I. Stanko and A. I. Klimova	754	753
Conditions for the Formation of a P—P Bond in the Action of Grignard Reagents in the Compounds R_nPOHal_{3-n} ($n = 0, 1, \text{ and } 2$) - G. M. Bogolyubov	755	754
Some Reactions of 1,1,2-Trifluoroallyl Trifluoromethyl Ether - V. A. Gubanov, A. V. Tumanova, and I. M. Dolgopol'skii	756	754
Phosphorylated Amides of Oxalic Acid - L. I. Samarai and G. I. Dekach	757	755
Synthesis of α - ω -Bismethacroyloxypolydimethylsiloxanes - D. N. Andreev and N. T. Usacheva	758	756
Substitutive Chlorination of Trichlorophenylsilane - G. V. Motsarev, A. Ya. Yakubovich, V. A. Ponomarenko, A. D. Snegova, and T. M. Ivanova . .	759	756
Synthesis of the O-Silyl-Substituted Enols and Related Compounds - Yu. I. Baukov, G. S. Burlachenko, and I. F. Lutsenko	760	757
Convenient Synthesis of Alkyl Hypophosphites - É. E. Nifant'ev and L. P. Levitan . .	762	758
Reaction of Triethyl Phosphite with 2-Bromovinyl Sulfones - E. G. Kataev, F. R. Tantasheva, and É. G. Yarkova	763	759
Reaction of Antimonous Esters with Ketene - V. L. Foss, E. A. Besolova, and I. F. Lutsenko	764	759
1,3-Alkadiynyltrialkyltins - V. S. Zavgorodnii and A. A. Petrov	765	760

The Russian date "Podpisano k pechati" of this issue was 3/12/65. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

ZHURNAL PRIKLADNOI
KHIMII
EDITORIAL BOARD

P. P. Budnikov
N. P. Fedot'ev
M. M. Koton
N. I. Nikitin
(Editor-in-Chief)
G. V. Pigulevskii
M. E. Pozin
L. K. Simonova
(Secretary)
V. V. Skorchelletti
N. A. Toropov
S. I. Vol'kovich
O. E. Zvyagintsev

JOURNAL OF APPLIED CHEMISTRY OF THE USSR

A translation of ZHURNAL PRIKLADNOI KHIMII
a publication of the Academy of Sciences of the USSR

© 1966 CONSULTANTS BUREAU ENTERPRISES, INC.
227 West 17th Street, New York 11, N.Y.

Volume 38, Number 4

April, 1965

CONTENTS

	P A G E	
	ENG.	RUSS.
Production of Metallic Sodium by Reduction of Its Silicate by Carbon under Vacuum - G. N. Kozhevnikov, A. S. Mikulinskii, and L. D. Bakhireva	723	713
Production of Rare-Earth Selenides by Reduction of Selenites - L. Ya. Markovskii, M. S. Soboleva, and Yu. P. Sapozhnikov	727	717
Influence of Crystallization Conditions on Capture of Adsorbable Impurities by Crystals - L. N. Matusevich and N. P. Blinova	730	721
Kinetics and Mechanism of Chlorination of Minerals (Loparite, Pyrochlore, Zircon, and Euxenite) - S. L. Stefanyuk and I. S. Morozov	737	729
Investigation of Ammonium Ferri- and Aluminophosphates - L. M. Lapina, A. Yu. Kizas, and I. A. Grishina	743	736
Influence of Radiations on the Rates of Leaching of Hydrargillite and Bauxite (Communication I) - V. N. Koryukov, S. I. Kuznetsov, and V. A. Derevyankin	752	746
Adsorption of Germanium Compounds by Activated Charcoal from Solutions - D. Ya. Evdokimov and A. P. Kostyuk	757	751
Separation of Li and K of Li and Cs (Communication I) - V. P. Shvedov and D. F. Makarov	761	756
Aqueous Absorption of Nitrogen Oxides at High Concentrations - A. N. Tseitlin and Yu. V. Lender	765	761
Manifestation of the Coordination State of Boron in the Electrode Behavior of Lithium Borosilicate Glasses - V. S. Bobrov, L. P. Kalmykova, and M. M. Shul'ts	770	766
Synthesis and Certain Properties of the Compound $ZnGeAs_2$ - N. A. Goryunova, V. I. Sokolova, and Chiang Ping-hsi	775	771
Investigation of the Reciprocal System $Na, K Cl, SO_4$ by Thermal Analysis and Electrical Conductivity Methods - I. T. Gul'din and A. V. Buzhinskaya	780	778
Thermal Characteristics of Gels (Communication II) - L. I. Khomutov, E. P. Korchagina, and S. A. Glikman	786	786
Catalytic Reduction of Inorganic Compounds by Carbon Monoxide in the Liquid Phase - A. B. Fasman, V. D. Markov, and D. V. Sokol'skii	790	791

(Continued)

Annual Subscription \$135

Single Issue \$30

Single Article \$15

All rights reserved. No article contained herein may be reproduced for any purpose whatsoever without permission of the publisher. Permission may be obtained from Consultants Bureau Enterprises, Inc., 227 West 17th Street, New York, N.Y. 10011, U.S.A.

CONTENTS

	RUSS. PAGE
Phase Diagram of the System $\text{Na}_2\text{O}-\text{V}_2\text{O}_5$ - B. V. Slobodin and A. A. Fotiev	799 801
Investigation of Mixed Ni-Pd Catalysts in Electrolytic Oxidation of Ethylene Glycol in Alkaline Solution - V. S. Daniel'-Bek, G. V. Vitvitskaya, and I. F. Danilenko	804 806
Influence of Hydrodynamic Factors on the Relationships in Simultaneous Discharge of Ions of the Main Metal and Impurity Cations, Discharged at the Limiting Current - A. L. Rotinyan, I. A. Shoshina, and É. Sh. Ioffe	809 811
Electrochemical Processes in Melts, Involving Intermetallic Compounds - Yu. K. Delimarskii, I. G. Pavlenko, O. G. Zarubitskii, and V. A. Oleinik	814 816
Influence of the Chloride Anion on the Kinetics of Simultaneous Discharge of Iron and Nickel - M. S. Grilikhes and V. V. Sysoeva	820 823
Investigation of the Conditions for Production of Porous and Nonporous Zinc Coatings from Acid Electrolytes - N. N. Balashova, N. A. Smagunova, V. I. Abramovich, and L. I. Tsvetkova	825 828
Formation of Passive Oxide Films During Electrochemical Polishing of Aluminum - N. P. Fedot'ev, S. Ya. Grilikhes, E. A. Berkman, and B. Ya. Zil'berman	829 834
Electrochemical Polishing of Steel by Alternating Current - G. P. Maltak and N. A. Ishchenko	834 840
Influence of Certain Complex Anions on the Chromium Plating Process - N. T. Drobantseva	840 846
Electrolysis of an Aqueous Solution of Mixed Potassium and Lithium Chlorides with a Moving Mercury Cathode - S. I. Sklyarenko, A. P. Rysev, I. V. Smirnov, and T. Ya. Chubarova	843 849
Formation of Sulfides during Shaft Smelting of Oxidized Nickel-Containing Ores - S. Ya. Kolodnyi	849 855
Infrared Heating of Sheet Thermoplastics - Yu. V. Nikitin, V. N. Sokolov, N. A. Kozulin, and A. Ya. Shapiro	856 864
Investigation of the Mechanism of Thickening of Suspensions - A. R. Murzin, N. I. Taganov, I. S. Lavrov, and M. F. Mikhalev	861 870
Catalytic Properties of Native Mineral Substances - M. I. Kuadzhe	868 877
Thermodynamics of Surface Phenomena in the Boiling Process - V. G. Gleim and V. M. Vileniskii	874 883
Application of the K. G. D'yakov Equation to Extraction from Single Drops - N. A. Gumenyuk and N. I. Smirnov	880 890
Influence of the Nature of the Catalyst on the Isomeric Composition of Cymenes (Communication I) - E. P. Babin, N. Z. Rudenko, and L. M. Sidorenko	884 895
Sorption of Carbon Dioxide by Porous Active Metal Sorbents - A. E. Grodshstein, S. P. Zholobov, and M. D. Ipatova	889 900
Solubility of Difluoromonochloromethane (Freon 22) in Dibutyl Phthalate at Various Temperatures and Pressures - V. M. Seliverstov	894 905
Mechanism of Thermal Desulfonation of the Hydrogen Form of KU-2 Cation Exchange Resin in Hydrocarbons (Communication IV) - N. G. Polyanskii, P. E. Tulupov, G. K. Sadovskaya, and N. A. Slovokhotova	899 910
Influence of Primary Aliphatic Amines on the Structure and Reactivity of Cotton Cellulose Fibers - N. I. Klenkova, O. M. Kulakova, N. A. Matveeva, and L. A. Volkova	906 919
Semicoking of the Constituents of Brown Coals and Peats - D. D. Ruschev and St. S. Mikhailov	912 925

(Continued)

Available From Consultants Bureau

CONTENTS

	PAGE	RUSS. PAGE
Hydrogenation of Crude Anthracene Fraction under 50 Atm Pressure in Presence of Industrial Aluminum-Cobalt-Molybdenum Catalyst—Yu. R. Katsobashvili and É. I. Él'bert	917	930
Investigation of Acids of High Molecular Weight Formed by Oxidation of Gdov Shales (Communication III) — V. A. Proskuryakov, Z. V. Soloveichik, and V. V. Gromova	923	936
BRIEF COMMUNICATIONS		
Silicon Carbide in Ferrosilicochromium — N. E. Filonenko and G. M. Zaretskaya . . .	927	941
Precipitation of Cobalt by Xanthates — A. L. Zagyanskii	929	942
Investigation of Densities of Aqueous LiCl, LiBr, and CaCl ₂ Solutions in Relation to Conditions of Gas Drying — S. A. Bogatykh and I. D. Evnovich	932	945
Oxidation of Iron-Aluminum and Copper-Aluminum Alloys — R. F. Voitovich	934	946
Vapor Pressure of Liquid Magnesium and Calcium — V. P. Mashovets and L. V. Puchkov	937	949
Incorporation of the [Ag(CNS) ₂] ⁻¹ Anion Labeled with the Ag ¹¹⁰ Isotope in the Growing Anodic Oxide Film on Aluminum (Communication II) — A. F. Bogoyavlenskii and N. K. Matyazh	941	952
Electrodeposition of Iron-Molybdenum Alloys from Fluoride Electrolytes — T. F. Frantsevich-Zabludovskaya and G. I. Sharafan	944	954
To the Memory of Professor V. I. Shvemberger — M. M. Dubinin, P. A. Rebinder, A. P. Terent'ev, V. P. Zuev, and V. A. Pinegin	947	957
BOOK REVIEW		
Chemistry in the Service of Archaeology, Building Technology, and Preservation of Cultural Monuments — Reviewed by O. P. Mchedlov-Petrosyan and L. P. Papkova	949	959

The Russian date "Podpisano k pečati" of this issue was 4/3/65. This is equivalent to "approved for printing." Publication did not occur prior to this date, but must be assumed to have taken place reasonably soon thereafter.

Publisher

Available From Consultants Bureau

Soviet Physics TECHNICAL PHYSICS

A Translation of "Zhurnal Tekhnicheskoi Fiziki"

(Russian Original Vol. 35, No. 9, pp. 1525-1711, September, 1965)

Vol. 10, No. 9, pp. 1183-1326

March, 1966

CONTENTS

	PAGE	RUSS. PAGE
Asymptotic Solution of a Diffusion Problem and Application to the Theory of Storage Rings. A. S. Bakal, G. Ya. Lyubarskii, and V. V. Rozhkov	(T) 1183	1525
Electrostatic Field of a Pair of Thin Spherical Shells (Axially-Symmetric Problem). A. N. Rukhovets and Ya. S. Uflyand	(T) 1188	1532
Thermal Fluctuations in Linear Passive Systems. A. A. Krasovskii	(T) 1192	1537
Kinetic Theory of Electromagnetic Waves in a Plasma Layer. A. N. Kondratenko	(T) 1198	1546
Frequency Doubling in Reflection of a Wave from a Plasma Boundary. Yu. R. Alanakyan	(T) 1202	1552
Positive Column in the Inverted Homopolar. É. M. Drobyshvskii and I. B. Chekmarev	(T) 1206	1558
Experimental Study of the Initial Region of a Square Magnetohydrodynamic Channel Taking Account of the Inhomogeneity of the Magnetic Field in the Longitudinal Direction. A. I. Khozhalnov	(E) 1213	1568
Acceleration of Pulsation Plasmoids. P. M. Kolesnikov	(T) 1219	1577
Polarized Interaction of Counterstreaming Plasmoids in a Trap with Combined Fields (Joffe Mirror). V. G. Zykov, I. A. Stepanenko, and V. T. Tolok	(E) 1225	1585
"Mixing" of Particles in a Magnetic Trap with a "Combined" Field. B. I. Volkov, V. B. Glasko, A. G. Sveshnikov, and N. N. Semashko	(T) 1229	1590
Polarization of Plasma Moving in a Helical Magnetic Field. B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok	(E) 1232	1594
Polarization of Plasma Moving in a Toroidal Magnetic Field. B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok	(E) 1235	1598
Polarization of a Plasmoid Moving in a Curved Magnetic Field with Different Signs of Curvature. B. P. Il'enko, E. M. Lats'ko, V. M. Zalkind, V. G. Zykov, and V. T. Tolok	(E) 1238	1602
Singularities in Radiation Emitted by Point Dipoles Moving in Narrow Cavities in Magnetoactive Media. K. A. Barsukov and V. N. Kurlantsay	(T) 1241	1606
Effect of Inhomogeneity on the Properties of a Circular Resonator. A. D. Sushkov and I. B. Vendik	(T) 1244	1610
Aberration and Displacement of a Beam by a Fringe Field without Transverse Variation in Magnetic Prisms. A. E. Malov	(T) 1249	1617
On the Theory of the Low-Voltage Arc in Cesium. H. B. Ya. Moizhes, F. G. Baksht, and M. G. Melikya	(T) 1252	1621
Non-Maxwellian Gas Diode. É. L. Nagayev	(T) 1261	1634
Effect of Gases on Thermionic Emission of Platinum and Tungsten. L. P. Rekova, Ya. M. Fogel', and A. P. Aleksandrov	(E) 1267	1642
Determination of the Conductivity of a High-Frequency Induction Discharge in Argon by Calorimetric and Spectral Methods. S. V. Dresvin, A. V. Donskoi, and V. M. Gol'dfarb	(E) 1270	1646

Copyright © 1966 by the American Institute of Physics, Incorporated

Available From American Institute of Physics
Vol. X, No. 9, March 1966

CONTENTS (continued)

		PAGE	RUSS. PAGE
Bolometer Measurement of Emission from Argon Ionized by a Shock Wave, Yu. N. Redkobodoyl and V. I. Fedulov	(E)	1275	1652
Surface Ionization of LiCl on Rhenium. N. D. Potekhina	(F)	1280	1658
Mass-Spectroscopic Investigation of the Operation of a Halogen Leak-Detector, V. I. Karpov, L. E. Levina, and L. D. Murav'eva	(E)	1283	1662
Adsorption Properties of Type A Zeolites at Liquid-Nitrogen Temperatures, V. M. Luney and A. A. Romanov	(F)	1287	1666
Hall-Effect Transducers Using n-Type Gallium Arsenide. N. V. Zotova, D. N. Nasledov, and O. M. Sresell	(E)	1292	1672
Superconducting Niobium-Gallium Alloys. Z. A. Guts, N. I. Krivko, V. K. Morozova, T. A. Sidorova, and A. A. Fogel'	(E)	1295	1675
Investigation of the High-Frequency Discharge in a Neon-Helium Laser, N. I. Krindach, I. A. Silin-Bekchurin, L. N. Tunitskii, and E. M. Cherkasov	(E)	1297	1678
Ferrite Switch for Intense Narrow Video Pulses. G. A. Mesyats	(E)	1302	1685
A Contribution to the Thermodynamic Theory of the Kirkendall Effect. P. E. Suetin and P. V. Volobuev	(F)	1305	1689
Discharge Phenomena in Liquids. I. S. Stekol'nikov and V. Ya. Ushakov	(E/T)	1307	1692
Scattering of X Rays in a Gas Consisting of Atoms of Finite Size, Considering the Duration of the Coherent Radiation Pulse. P. A. Beziganyan	(T)	1314	1701
LETTERS TO THE EDITOR			
Thermionic Converter Operation in the Presence of Krypton. E. S. Bektukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev	(E)	1318	1707
Cesium Thermionic Converter Operation in the Presence of Xenon. E. S. Bektukhambetov, Yu. K. Gus'kov, and S. Ya. Lebedev	(E)	1320	1709

Available From American Institute of Physics
Vol I, No 9, March 1966

INDEX TO AUTHORS

This index does not include authors listed in the cover-to-cover tables of contents.

- A -

Abbasov, A. R.	83	Andreyeva, I. B.	80
Abdulghauf, Said	53	Andzhaparidze, O. G.	60
Abely, Xavier	62	Anen'yev, P.	11
Aben, Kh. K.	106	Ankudinov, A. L.	130
Abramova, Zh. I.	55	Antonov, V.	9
Abrikosova, M. A.	57	Antoshkevich, V.	53
Abutalipov, Zh.	6	Anufriyenko, S.	5
Ackermann, W.	113	Apalin, V. F.	123
Acloque, P.	101	Apostol, Gh.	24
Adda, Y.	112	Arbuzov, B. A.	73
Afrutkin, Sh.	7	Ardab'yevskaya, L. N.	79
Agadzhanyan, N. A.	74	Aresin, Lykke	65
Agalovyan, L. A.	126	Armand, D. L.	13
Ahmed, Sayyed	39	Artilde, J. Alvaro Diaz	72
Ajello, L.	69	Artmenkov, L. I.	123
Akerman, Karol	95	Artsimovich, L. A.	128
Akhmanov, B. A.	128	Artyukhovs'ka, L. M.	119
Akhmedov, R. B.	55	Asaba, G.	70
Akhmetzyanov, M. Kh.	105	Asao, Moteki	117
Akopyan	108	Asanova, V. K.	52
Akulichev, I. T.	68	Ashin, A. K.	106
Al'bert, V. E.	120	Ashta, Zef	28
Albrecht, Pavel	62	Asinovskiy, E. I.	85
al-Dawalibi, Ma'ruf	38	Asshauer, E.	66
Aleksandrov, Yu. A.	124	Astori, Rocco	30
Aleksandrova, T. D.	14	Atkinshina, G. T.	56
Alekseev, F. A.	123	Aubame, Jean-Baptiste	35
Alekseyev-Shemyakin, V. P.	78	Aubecq, M.	112
Aleshkov, M. N.	49	Avramchuk, V. V.	49
Alling, I.	5	Avramov, Todor	28
Alper, A. M.	111	Avsharov, L. I.	60
Al'shits, I. M.	99	Ayzenberg, B. L.	3, 96
Ambroziak, A.	94	Azhazha, V. M.	104
Ambroziak, Andrzej	95		
Aminova, V. M.	81	- B -	
Amirova, S. A.	107	Babanov, Yu. N.	89
Amor, B.	64	Babenko, K. I.	128
Amorus, J. L.	77	Babskiy, Ye. B.	54
Amport, Max	67	Baglietto, E.	85
Anderson, Cleve		Bagrov, A. N.	79
Richard	104	Baikov, I. A.	127
Ando, T.	117	Baikov, I. S.	127
Andre,	63	Bakhman, N. N.	100
Andrei, A.	24	Bakuta, I. A.	86
Andreyev, V. D.	119	Balashova, A.	6
Andreyev, Yu. G.	106	Balaure, Fl.	24
		Balogh, Laszlo	10
		Bandis, Dieter	45

Bannyi, N. P.	105
Ban-ya, Sh.	118
Barabolya, P. D.	11
Baranov, E. F.	3
Baranov, Yu. K.	86
Baranyuk, V.	12
Barbieri, G.	102
Barchiesi, G.	117
Bardin, S.	16
Bardina, V. P.	86
Barreda, Cesar Martin	46
Barthel, H.	116
Barthelemy, Pierre	111
Bartnicki, Marian	21
Basevich, V. Ya.	73
Baskakov, A. P.	53, 97, 100 110, 126
Baskin, M. L.	106
Basov, N. G.	122
Bassetti, M.	93
Battmer, Ernst	27
Batyrev, V.	5
Bauer, Heinz	68
Baum, F. A.	98
Baum, K.	116
Baumbert, Gorhard	27
Baver, A. I.	110
Bayet, Michel	124
Bazilevich, F. V.	120
Bazilevich, V. L.	87
Bazin, Henri	35
Bazuro, R.	117
Beaubois, Henry	49
Beaujard, L.	112
Becerril, P.	122
Becherer, R.	124
Becker, F.	115
Becker, M.	104
Behrens, Ernst	102
Belenov, E. N.	122
Belevich, R. R.	81
Bel'kov, V. P.	52
Belorusov, D. V.	4
Bel'skiy, Ye. I.	96
Belyayev, V.	6, 9
Bennewitz, K.	132
Berezov, V.	4
Berger, J.	130
Berkutov, A. N.	59
Berlin, I. K.	109
Bernheier, Kurt	17
Bergin, A. K.	122
Beshchev, B.	1

Bethge, H.	113
Bezlepkin, B.	12
Biagni, C.	69
Biassoni, P.	69
Biberman, L. M.	128
Bibilashvili, N. Sh.	80
Bibring, Herve	111
Bier, August	64
Biharilal, Rajendra	40
Biji, Mircea	29
Bilalov, Ya. M.	107
Bilen'kiy, B. F.	132
Biochini, Ary	44
Birkendahl, Arthur	19
Birman, A.	6
Biryukov, A. I.	15
Biryukov, B.	4
Bitunov, V.	2
Bjerkelund, Christopher	70
Bjornsson, Gudmund	68
Blagonravov, A. A.	49
Blain, P.	112
Blaise, N'Dia Koffi	29
Blamont, Jacques Emile	84
Blanchard, R.	130
Blass	67
Blumenstein, W.	26
Blyakher, L. Ya.	73
Boaba, Alexandru	25
Bodin, Jean'Louis	125
Bobkov, Ye.	89
Bobovich, Ya. S.	109
Boccaccio, P.	70
Bodunova,	108
Boescu, V.	24
Boettcher, Manfred	20
Boffa, Giuseppe	32
Bofors, AB	91, 101
Bogdan, N.	24
Bogomolov, O.	2
Bokshtein, S. Z.	109
Bolotin, V. V.	128
Bolotin, V. Z.	98
Bol'shakov, G. F.	103
Bol'shev, L. N.	128
Bonaparte, Marie	64
Bonkowski, Andrzej	22
Bopp, R.	113
Boreskov, G. K.	122
Borisov, A. A.	130
Borisov, S.	6
Borkmann, D.	87, 93
Bornazyan, A. S.	105

Borodin, P. D.	5	Chang, Fang	42
Borodulina, T. L.	58	Chang, Hsin-yu	111
Borovik	129	Charles, Denys	101
Borowski, K.	116	Chauvin, E.	64
Borzhim, V. S.	58	Chechulian	108
Botter, F.	104	Chekalinskaya, Yu. I.	125
Boucher, Rene	111	Ch'en, Ch'ih	111
Bourrillon, Roland	64	Ch'en, Hsien-huang	41
Boxaca, M. C.	72	Ch'en, Hung-chiu	41
Boyko, I. I.	133	Ch'en, Yu-lien	111
Brahem, I. Ben	36	Cheng, I-shan	130
Brahem, J. Ben	36	Cheng, Yu.	49
Braun, M. P.	105	Chereshnev, V.	8
Brebec, G.	112	Chernysheva, N. P.	107
Brescia	102	Chernyy, A. I.	120, 3
Brestkin, M. P.	55	Chernyy, G. G.	127
Bretschneider, Hans	19	Chernyy, I. I.	120
Breynat, G.	111	Cheryakov, V. A.	15
Bril, A.	132	Chi, Yong-sun	44
Brilling, K. K.	86	Chiang, Lien-sheng	75
Brochowski, Andrzej	94	Chiboshvili, I. A.	60
Brodskiy, A. F.	56	Ch'ien, Hsing-i	49
Brodskiy, A. I.	123	Chien, Jen-yan	130
Brodskiy, V. M.	121	Chimed, G.	43
Bronner, Gottfried	102	Chindonova, Yu. G.	80
Brustier, Vincent	63	Chirkova, A.	7
Brzev, Blaze	61	Chistovich, L. A.	54
Brzozowski, Franciszek	22	Chitashvili, S. Sh.	51
Budzynski, Gustaw	95	Chon, Tae-yong	41
Buhr, P. A.	65	Christ, Rolf	26
Bukh, A.	110	Christyakov, Yu. D.	109
Bulgaru, M.	24	Chu, Shan-nong	130
Bungardt, K.	113	Chu, Shih Ming	41
Burykina, A. L.	106	Chudnovskiy, A. F.	81
Busygin, Ye. P.	15	Chugayev, R. R.	81
Bychkovskiy, G. B.	109	Chumichev, D. A.	52
- C -		Chung, Huong	42
Calomfirescu, V.	23	Cika, Zarko	25
Camachl, E.	96	Ciolan, I. L.	23
Camussini, G. F.	69	Clarenburg, L. A.	84
Canaan, Habib	40	Class, Immanuel	116
Capeti, Gheorghe	24	Claus, F.	67
Castaing, R.	91	Coet, P.	90
Cattaneo, Jeanne	64	Consoli, Terenzio	124
Cehovin, Dusan	25	Constantinescu, M	23
Ceppellini, Ruggero	69	Contre, M.	75
Cesarini-Sforza,		Cortellessa, G.	29
Marco	31	Cracium, Al.	24
Chambadal, M. Paul	104	Cvetanovic, A.	25
Chang, Chia		Czarnota, Lygmunt	27
Chia-hsiang	41		

- D -

Dadayan, V.	6
Daglio, Cesar Reyes	47
Dalin, S.	5
Dall'Ongaro, Giuseppe	46
Danda, Jerzy	95
Dangeard, Louis	101
Davezies, Robert	37
Davidenko, V.	12
de Almeida, Fernavie F. M.	48
de Beaumont, H.	130
de Guerrero, L. B.	72
de la Perriere, G.	104
de Wind, E.	69
Decrop, M.	111
Dejid, B.	43
Delanne, Rene	37
Deleanu, I.	24
Delgado, C.	45
della Volpe, Galvano	31
Delsemme, A. H.	75
Dement'ev, G. P.	52
Demidov, G. V.	121
Demidov, P. V.	5
Demin, V. N.	110
Demir, Yakub	40
Dem'yanov, A. V.	85
Denkigakkai,	94
Descamps, J.	91
di Valmaggiore, Rafaele Paolucci	69
Diallo, Yaya	37
Didner, D.	72
Diehl, J.	131
Diemers, H.	115
Dietrich, Gunter	84
Dietzel, A.	77
Dmitriyev, V. M.	3
Dokuchayev, G. I.	60
Dolgopolo, V. V.	127
Dolgushin, L. D.	13
Doliwa, H. U.	114
Dolotova, I. A.	105
Doniat, D.	90
Donze, G.	124
Dordea, T.	95
Dorjsuren, E.	43
Drabkova, H.	62
Druzhinin, N. N.	105

Dubinskiy, Yu. A.	120
Dubitskiy, G. M.	106
Dubov, A. S.	49
Dubrovskiy, E. B.	59
Dudregne, Raymond-Andre	64
Dudukin, V. I.	15
Dudzinski, Wladyslaw	23
Dumitrescu, Dan F.	24
Dumin-Barkovskiy, L. V.	13
Durrer, D.	62
Dutkowski, H.	95
Dutting, D.	65
Dvorkin, V. Ya.	54
Dvorzhak, L.	5
Dvoskin, B. Ya.	4
D'yachenko, V. F.	121
D'yakov, I. G.	104
Dyankov, Dimitur	18
Dzhubaliyeva, P. A.	97
Dzidziguri, T. D.	54

- E -

Ebert, Rolf	84
Efimenko, G. G.	106
Efimov, L. M.	106
Eiichi, Aoki	41
Eisenkolb, J.	115
Eliutin, V. P.	107
el Debelkey, Marc	30
El-Khafif	39
Emons, H. H.	77
Encinas, del Pando, Jose Antonio	45
Engel'gardt, V. A.	57
Engshuber, M.	17
Enyedi, George	18
Erdey-Gruz, Tibor	20
Esser, Wilhelm	102
Ester, K. M.	54
Eulenburg, A.	71
Euler, H.	125

- F -

Fadl, Abd Al Fattah Abu al	40
Faggiani, Sergio,	132
Fahrman, Karlheinz	124
Falitsiant, I. N.	74
Fang, Chi	42

Fankhauser, F.	66
Faraone, G.	69
Farizov, I. O.	7
Fast, Heimer	91
Fataliyev, Kh. M.	129
Fedorenko, N.	9
Feher, Lajos	20
Feil, H.	17
Felgel-Farnholz, O.	113
Ferrandi, Jacques,	36
Ferrara, Maurizio	31
Ferreira, Amadeu	34
Fialkov, A. S.	110
Fibich, Zdenek	90
Filatkin, V.	127
Filimonov, A. I.	81
Filipkowski, A.	94
Filipov, F.	55
Filipov, Grisha,	10, 17
Filipovic, Ratko	25
Filippov, V.	2
Finck, H.K.A.	96
Fischer, F. A.	92
Fischer, Herbert	65
Fischer, Hubert	65
Fischer, W.	114
Fischer, W. A.	113
Fishman, K. M.	120
Fjiriti, Dervish	17
Flaum, L.	13
Florovskaya, V. N.	78
Fokht, A. S.	50
Fomin, L. M.	81
Fomitchev, A. V.	82
Formoso, Julio	46
Fotiadi, E. E.	78
Fournet, Gerard	131
Frank, Pierre	46
Frezzotti, Renato	69
Fridenson, Ye. S.	123
Fridman, A.	95
Fridman, L.	5
Frolov, I.	56
Frolov, V. V.	81
Frolov, Yu. P.	53
Fromageot, P.	64
Fu'ad, Hammady	46
Fuwa, T.	118

- G -

Gadaskina, I. D.	55
Gajda, A.	118
Galadzhii, F. M.	129
Galetskiy, F. P.	85
Galil-Ogly, F. A.	107, 110
Galunov, V. I.	54
Gamussini, G. F.	69
Gartner, Rudolp	67
Gaydayev, P. A.	85
Gehring, Ulrich	67
Georgiyev, Z.	86
Georgiyevskiy, G. A.	99
Geptner, V. G.	61
Gerasimov, I. P.	14, 51
Gerold, Volkmar	131
Gesemann, H. J.	114
Getsov, L. B.	103
Geyer, Gunther	64
Gilbert, A.	63
Gilejko, Lech	28
Gilinskaya, N. S.	107
Gilinskiy, S. M.	126
Giosan, N.	25
Girard, Georges	30
Giraud-Heraud, F.	111
Gladkov, N. A.	59
Gladvind, Johannes	30
Glazunov, P. Ya.	104
Glinchuk	119
Glinchuk, K. D.	110
Glonyagin	85
Glotov, I.	71
Glotov, V. N.	98
Glushkov, V. M.	60, 121
Gockeritz, Von D.	131
Gol'man, L.	11
Golomshtok, I.	11
Golovenko, E. V.	15
Golovkin, K. K.	121
Gombay, L.	133
Gonzalez, Stella M.	72
Gora, Andrzej	53
Gorbachuk, M. L.	121
Gorbunova, L. I.	15
Gordeyev, E. I.	82
Gordeyev, L. I.	49

Gordon, L.	5
Gorelov, D. N.	126
Gorin, F.	7
Gorshkova, T. I.	83
Gouyuanos, Vassilis	39
Grancois, M.	75
Grebtsev, N. V.	106
Gribkov, V. V.	52
Gribnikov	87
Grishin, A. M.	100
Grishina, L. I.	15
Grishko, F. I.	55
Gritsman, Yu. Ya.	58
Gritsyuk, Yu. N.	123
Grjebine, T.	123
Grognot, P.	63
Gruhl, Wolfgang	116
Gruppi, Luciano	32
Grzegorzewski, J.	103
Gubin, S. S.	6
Guenthardt, Walter	36
Guillou, Michel	90
Gurfaiik, M. M.	98, 126
Gurskiy, Yu. N.	78
Gusak, Ya. M.	96
Guse, Gustav-Adolf	27
Gusev, D.	15
Gutaker, Jerzy	28
Guttuso, Renato	32
Guzeyev, O. Ya.	85
Gvelesiani, G. G.	128
Gvozdozer, S.	129
Gyulai, Z.	116

- H -

Haber, A.	92
Habibi, Emile	39
Habiby, Amil	39
Haeseler, Guenther	76
Halik, J.	56
Halikowski, Boguslaw	71
Handler, R.	116
Hansgen, H.	124
Hardy, J. M.	50
Harnisch, Herbert	67
Haroche, Charles	30
Hauk, V.	113, 115
Haupt, E.	114
Hausler, K.	115
Havlik, Ladislav	89
Hedman, Lars	33

Hedri, Gabriella	20
Hennig, K.	66
Herczynska, E.	118
Hermesen, Hans	26
Herreman, Philippe	38
Herrfurth, J.	92
Herrmann, G.	125
Hertzberg, F.	40
Hiltunen, Toivo	91
Hinze, H.	114
Hirai, H.	118
Hlavac, Jan.	76
Hoang, Bac	42
Hoenig, Arnost	100
Holm, J. V.	103
Holzmueller, A.	114
Hong, Sung-un	43
Hopcke, W.	102
Hoppen, J.	96
Horna, J.	89
Hortobagyi, Tibor	68
Hoyashi, S.	117
Hrycej, J.	90
Hryniewiecka, Krystyna	71
Hsu, Ti'hsin	44
Hsu, Yu-wu	75
Hsun, Hai	89
Huang, Ping-wei	41
Hurlimann, T.	124
Husarek, V.	112
Hybasek, Ivan	71

- I -

Iagodinskiy, V. N.	60
Ichinhorloo, L.	43
Ignatowicz, Stanislaw	95
Ignat'yev, G. M.	99
Il'in, I. I.	59
Il'yin, L. O.	132
Imshennik, V. S.	122
Ingrao, Pietro	32
Inozemtsev, A. A.	59
Ioffe, V. I.	55
Ionescu, N. H.	24
Ionescu, Tudor D.	24
Ionov, V. N.	119
Iordache, V.	24
Ipsen, Johs	67
Ireland, John	62
Isachenko, A. G.	14
Isayev, S. I.	79

Isayeva, N. S.	3
Istratova, O. T.	52
Itoh, Y.	118
Ivanenkov, V. N.	82
Ivankin, P. F.	97
Ivanov, Dimitrij	29
Ivanov, J. A.	82
Ivanov, V. A.	56
Ivanov, V. E.	110
Ivanov, Yu. A.	80
Ivanov, Yu. N.	126
Ivanova, Z. S.	83
Iwao, Umeda	125
Izdebs'ka, G. A.	133
Izgaryshev, N. A.	105
Izmailov, A. V.	107
Izquierdo, Escobar	72
Izvekov, A. V.	99
Izvol'skaya, N.	2

- J -

Jacquinet, Jean	33
Jakobsen, Erling	70
Jakubek	130
Jalee, Pierre	31
Janac, J.	131
Jancikovic, Milan	10
Jang, J.	131
Janiche, W.	116
Jarema, Bohdan	21
Jarlot, Georges	30
Jastrzebski, Franciszek	10
Jelinek, Frantisek	90
Jellinghaus, W.	112
Jen, Kuang	41
Jen, Yuan-shou	41
Jeney, Endre	77
Jenik, F.	89
Jerabek, L.	89
Jettmar, Von H. M.	64
Joh, H.	117

- K -

Kabanova, Yu. G.	82
Kaiser, H. K.	114
Kalashnik, M.	12
Kalashnikov, Ya. A.	105
Kaliteyevskiy, N. I.	99
Kallai, L.	59
Kalmykina, Ye. M.	15

Kalvenas, S. P.	86
Kamel, Michel	39
Kamenitser, S.	7
Kampfenkel, Ottomar	102
Kandrор, V. I.	54, 55
Kantor, Lazar' Moiseyevich	8
Kao, Hsiang	41
Kao, Min-chih	75
Kapitsa, P. L.	15, 133
Kaplan, S. A.	78
Kaplanyan, M. A.	100
Kapov, Ivan	18
Kapustinsky, A.	77
Karacharov, K. A.	129
Karamyshev, A.	6
Karandeyev, K. B.	87
Karatayev, G. I.	78
Karavaev, M. N.	54
Karosene, A. V.	86
Karpenko, I.	4
Karpenko, I. V.	105
Karpinski, Andrzej	21
Karpman, B. L.	55
Karpmann, V. L.	57
Kartvelishvili, K. M.	79
Katashinskiy, V. P.	109
Kati, Vasil,	16
Katys, G. P.	89
Kavetskiy, S. P.	15
Kaviyadze, M. Sh.	128
Kawa, Jozef	21
Kawakami, K.	117
Kawawa, T.	118
Kayser, L. A.	1
Kazakov, P.	2
Kazmierski, Krzystof	22
Kedrina, Z.	11
Keibs, L.	92
Keisuke Matsui	70
Keller, F.	116
Kessel'man, S. M.	4
Khaidukov, N. I.	73
Khakimov, Kh. R.	83
Khanlarova, A. G.	10
Khodos, P.	16
Khokhlov, R. V.	128
Khotyanovich, A. V.	56
Khristov, Emil	17
Khudenko, B. G.	103
Khudovekov, B. A.	13
Kielan-Jaworowska, Z.	71
Kiess, H.	92

Kilchiro, Minami	70	Korovin, F.	15
Kim, G. F.	43	Korulska, Maria	22
Kim, Song-t'ae	41	Koshelev, F. F.	107
Kirev, Petko	18	Koshkarova, L.	2
Kiselev, I. N.	8	Koshkinen, Jorma	91
Kishkin, S. T.	109	Koske, Peter H.	65
Kiss, G.	67	Kossova, V. P.	106
Kitagawa, K.	118	Kosta, Pjeter	16
Kitin, Georgi	18	Kostiukov, M. A.	60
Klebanov, G. N.	106	Kostyancy, N.	12
Klein, S.	91	Kostyukov, I. I.	5
Kleinerman, M.	23	Kotlikov, Ya.	1
Klement'yev, K. V.	8	Kotova, E. S.	68
Klepp, F.	115	Kotovskaya, A. R.	50
Kleven, Hans I.	32	Kovacs, Denes	20
Klimek, Adolf	90	Koval', I. K.	84
Klimenko	132	Kovalev, M. P.	96
Klimovich, L.	16	Kovalev, V. V.	58
Knutsen, Martin Gunnar	32	Kovaleva, Ye. P.	56
Knyazev, K.	1	Kovosel'skiy, O. Yu.	126
Kobel, J.	114	Kovtun	108
Koberg, W.	66	Kovzhin, L. A.	73
Kobulashvili, Sh. N.	98	Kowalewski, Boleslaw	22
Kobus, Andrzej	95, 119	Koyama, Kenjiro	70
Koch, W.	112	Kozhanov, K. Ya.	52
Kochanowski, Jerzy	71	Kozlov, A. V.	81
Kochetkova, V. A.	54	Kraemer, Georg	77
Kodolov, V. I.	74	Krahl, K.	92
Koehler, Kurt	67	Krasovskaya, I. V.	52
Kogarko, S. M.	73	Kratky, O.	131
Kogi, K.	101	Kraus, P.	91
Kogoy, T. F.	56	Krauss, Krzysztof	10, 23
Kohnlein, H. E.	66	Kravchenko, L. D.	87
Kolachev	108	Kredoten', L.	11
Kolarik, Z.	75, 123	Kremenchugs'kiy, L. S.	119
Kolath, Hans-Herman	19	Krenek, J.	133
Kolchin, O. P.	109	Kreshchanovskiy, N. S.	106
Koldomasov, Yu.	6	Krivenko, Ya.	2
Koldomasov, Yu.	9	Krivoglaz, B. A.	73
Kolesnev, S.	1	Kroshkin, M. G.	49
Kolesnikov, K. S.	49	Krostoffersen, Mogens	62
Kolgayev, A.	59	Kruger, G.	101
Kol'man, E.	58	Kruglitskiy, N. N.	105
Kolomenskiy, A. A.	122	Kruh, Jacques	64
Kolomiyets, V. P.	59	Krumbiegel, D.	19
Koltermann, M.	113	Kryszewski, Marian	95
Komlev, A. A.	53	Kryuchkov, V. V.	51
Kondratenko, A. N.	127	Kuan Ta-t'ung	41
Konoplyantsev	57	Kuan, Yun-pi	75
Korach, Mor	77	Kubanskaya, A. P.	121
Korenenko, Ye. S.	8	Kubat, R.	61
Kornherr, M.	131	Kublanovskaya, V. N.	121
Kornilov, I. I.	104	Kucheneva, G. G.	51
Kornov, O. S.	14	Kuchanskiy, A. F.	49
Korolev, G. K.	56	Kuczynski, Jurgon	45

Kudryavtsev, G. I.	74
Kuhne, A.	124
Kuhne, H.	124
Kukkonen, E. Ye.	105
Kulagin, V. K.	81
Kulling, J.	102
Kunin, V. N.	13
Kuo, Ch'uan-lin	74
Kurbakov, K. I.	120
Kurklisiyski, N. T.	18
Kurze, G.	133
Kuss, R.	64
Kutyla, Julian	22
Kuwajima, Yoshio	70
Kuzin, M.	3
Kuzinski, Stanislaw	22
Kuz'menko, V. A.	88
Kuz'min, A. I.	83
Kuznetsov, F. S.	12
Kuznetsov, N. T.	98
Kuznetsova, L. S.	97
Kuznetsova, S.	38
Kuznikova	130
Kyropoulos, S.	132

- L -

Labushkin, V. G.	122
Laipert, Miloslav	18
Lajzerowicz, Joseph	131
Laktionev, A. G.	78
Lamekin, N. S.	103
Langendorff, H. C. Hanns	67
Lapan, B.	3
Lapicciarella, Renzo	32
Lapin, B. A.	66
Laptev, I.	9
Larcan, A.	63
Laryonova, A. N.	78
Laszlo, Foldvari	10
Latash, Yu. V.	104
Latipov, A.	59
Latyshev, V. P.	109
Laukamm, Wolf	27
Laumyanskas, Yuryavichyus	58
Laurson, Dan	133
Lay, Houang	130
Lazarenko, T.	6
Le Roux, P.	112
Lebedev, A. A.	79
Lebedev, Ya. A.	129
Lebedeva, R. N.	59
Lechowicz, Wlodzimierz	23
Ledersteger, K.	84
Lee, Chen-yuan	70

Legris, Michel	37, 38
Lehmann, Von Edgar	29
Lehr, P.	111
Lehrer, Erwin	100
Lengyel, Laszlo	21
Lentin, Albert-Paul	37
Leonov, A. K.	81
Leont'yev, N. F.	14
Lelie, H. J.	111
Lesnevskiy, R. M.	85
Leszczynski, Stanislaw	21
Leushin, N. I.	79
Levin, A. N.	109
Levinskiy, L. S.	86
Levykin, A. I.	78
Lewicki, Cz.	53
Leynaert, J.	50
Lezhnev, N. N.	107
Liberman, Ye.	1
Ligden, B.	43
Likiardopulo, A. G.	89
Linetskaya, Z. G.	73
Linner, E.	63
Lipkowski, Szymon	28
Lisitsyn, V.	6
Listengurt, F. M.	4
Litovchenko	119
Litvinenko, Oleg	58
Liu, Pao	89
Liu, Sheng-kang	89
Liu, Shou-hsi	61
Livanov	108
Lobodin, T. V.	78
Lohle, F.	132
Lomkovskaya, M. V.	120
Longo, Luigi	32
Lopashov, G. V.	54
Loskutov, K. N.	127
Losonczi, Pal	5
Loyt, T.	56
Lu, Shu-fen	41
Ludemann, Karl Friedrich	19
Luneva, L. K.	74
Luporini, Cesare	31
Lushnikov, F. N.	8
Lustig, Karel	44
Luzzatto, Lucio	37
Lychko, I. I.	104
Lyubinskiy, I. A.	85
Lyubovich, L. A.	85

- M -

Mabrouk, Abbas	39
Madaj, Jozef	18
Magnitskiy, V. A.	78
Maitan, Livio	31, 46
Majewski, Jerzy	21
Makarenkov, V. V.	103
Makhkamov, G. M.	59
Makhmudov, D. S.	109
Malafeyev, A. N.	4
Malik, L. K.	13
Malkevich, M. S.	84
Mamro, K.	118
Mandaki, Bruno Celestin	37
Mandel'shtam, S. L.	126
Mandzhavidze, N. F.	79
Manova, N. V.	16
Marchenko, L. M.	98
Marholova, Olga	75
Marinich, A. M.	13
Markovich, Stefan	18
Markowski, Stanislaw	23
Marshak, M. Ye.	54
Martin, H.	111
Martinez, G.	70
Martynov, V. M.	107
Mashiko, Yoichiro	104
Mashimov, M. M.	85
Masiarczyk, Stanislaw	28
Masuda, S.	116
Matchanov, N.	7
Matrozov, V. I.	103
Matsko, B. M.	57
Matthes, Franz	76
Matusov, A. L.	60
Matveyeva, A. Ye.	97
Maurer, F.	131
Mazanek, T.	118
Mazing, M. A.	126
Meckelburg, E.	113
Medoks, T. S.	60
Megreyev, V. V.	10
Megumi, Tashiro	77
Meier, F.	19
Meisinger, G.	44
Meissner, Hermann	48
Meister, E.	102
Melamud, E. Ya.	120
Melchers, F.	65
Melo, Vasil	28

Menard, L. T.	33
Menga, Guy	36
Menkous, Yahya Ould	35
Merkov, A. M.	56
Mesa, Enrique	47
Meshcheryakov, Yu. A.	14
Messmer, P.	33
Mettler, Norma E.	72
Meuthen, B.	115
Mgjela, Kico	16
Michalowicz, Jerzy	118
Michel, A. H.	112
Michel, R.	50
Michels, A.	75
Miclea, R.	24
Mikhalevskiy, B. N.	3
Mikhalevskiy, V. D.	89
Mikhaylov, A. I.	133
Mikhaylov, Stoyan	18
Mikulin, A. A.	99
Mileshkevich, V. P.	73
Mil'kov, F. N.	14
Milojio, Budimir	25
Mina, A. H. Subhi	
Iskandar	40
Minakowski, Wacław	71
Minkevich, A. N.	106
Minkh, A. A.	54
Mints, A. A.	14
Mirtes, B.	90
Mishen'kin, B. P.	97
Misic, Dimitrije	25
Misiolek, Z.	118
Mitev, Dimitur	26
Mitsuwa, Hiroshi	43
Mitsuyuki, Kitazume	132
Mizernitskiy, A. I.	87
Mlcak, Antonin	100
Mo, Shao K'uei	122
Mockel, R.	87, 93
Modde, Harald	65
Moe, Arnold	32
Moeller, Ulrich	122
Moeschwitzer, A.	92
Mohnike, G.	65, 66
Mokrushin, S. A.	96
Moller, J. Floe	62
Monbouyran, Leo	30
Mondot, J.	112
Montagnier, Luc	63
Montenovo, Luca G.	31

Morozov, N. M.	13
Morozov, Valeriy	58
Morozova, M. V.	107
Morozova, Ye. N.	120
Morzhakov, S. P.	96
Mosca, Giovanni	31
Mrha, Jiri	75
Mroziewicz, B.	94
Mukhlinov, A. I.	44
Muller, H. K.	114
Muller, K. G.	65
Muller, P.	131
Mun, Chong-t'aek	42
Muromskiy, P. G.	8
Murzayev, E. M.	14
Mydlowaski, Zdzislaw	27
Myursepp, P. V.	60

- N -

Nadaud, L.	104
Nakamura, S.	117
Namy, G.	112
Narodetskiy, M. Z.	98
Nasif, Abdel Hadi	40
Natanson, M. E.	105
Natta, Alessandro	31
Naumov, A. G.	82
Naumova, I. I.	110
Navnyko, P. P.	107
Nazarenko, G. T.	105
Nedospasov, A. V.	128
Negreyev, V. F.	108
Nekrashevich, I. G.	86
Nekrasov, O.	9
Nemirowskiy, A. S.	119
Nendel, K.	10
Neporozhniy, P.	1
Neporozhniy, P. S.	4
Nesterchuk, A. V.	121
Neuberger, A.	115
Neumann, W.	114
Newesely, H.	65
Ngo, Van Tinh	44
Nguyen, Tam	42
Nguyen, Thanh Dao	42
Nicolau, Constantin	24
Niedergesass, E.	19
Nies, H.	115
Niethammer, W.	101
Nifant'yev, E. Ye.	73

Nikiforov, L.	8
Nikolaevskii, V. G.	51
Nikolayeva, T. N.	8
Nikolskiy, G. V.	61
Nikonchik, O. K.	58
Nikonorov	57
Nilles, P.	115
Nishio, Y.	117
Nistor, O.	95
Nobecourt, Jacques	31
Noetzel, Brunon	22
Nogradi, Laszlo	20
Nono, Luigi	31
Nonveiller, Sergije	25
Norlund, Ib	30
Novakova, J.	90
Novgorod, A. I.	43
Novgorodov, A.	12
Novikov, A. S.	110
Novoselova, S. L.	60
Novozhilov, M. G.	100
Nozaki, H.	117
Nrgaard, Leif	17
Nudman, S. I.	61

- O -

Oberzill, W.	67
Obrushev, D. V.	57
Occhetto, Achille	31
Oehme, H.	76
Oelsen, W.	112
Ogawa, Eijichi	70
Ohba, H.	118
Okamoto, K.	117
Okuneva, Z.	9
Oliva, L. A.	117
Oliveira, Hermes	
de Araujo	34
Olkuski, Boleslaw	10
Omarov, A.	2
Onambebe, Raphael	38
Ono, S.	117
Oparin, A. I.	57
Oramas, Joaquin	45
Orayevskiy, A. N.	129
Orlenko, L. P.	107
Orlinkov, L. L.	120
Orlov, G. M.	7
Orlov, N. F.	73
Orlov, Ya.	1

Orlova, N.	6
Orvik, Nils	34
Osad'ko, A.	6
Ostrovityanov, Yu.	11
Ota, T.	118
Ott, Erwin	76
Ovezov, B.	1
Ozga, Wladyslaw	21

- P -

Pachadzhanova, G. N.	81
Packendorff, Kurt	76
Padron, Pedro Luis	48
Pajaczkowska, Anna	94
Palinski, Roman	124
Paliyski, Ivan	17
Pal'mov, V. A.	98
Palov, Ivan	18
Panchenkov, G. M.	103
Panfilova, S. G.	82
Panov, I.	12
Papek, K. K.	103
Papirov, I. I.	104
Papok, K. K.	103
Papp, Ferenc	28
Parin, V. V.	55
Parizescu, V.	28
Parma, V.	118
Parodi, A. S.	71
Parodi, Armando S.	72
Parshin, V. N.	79
Pashkevich, O.	1
Passow, C.	91
Patterson, W.	114
Pattoret, A.	131
Paupa, V.	5
Pavlovii, E. N.	15
Pavlovskiy, R. A.	127
Payr, Erwin	64
Pecherskiy, N.	6
Pekarev, A. I.	107
Pekarevich, G.	107
Pervomayskiy, G. S.	61
Petersen, Heinz	19
Petrov, P.	26
Petrovskiy, M. V.	59
Petviashvili, V. I.	127
Pezerat, Henri	30
Pietri, H.	62
Pilyutik, A. G.	129

Pinkau, K.	124
Piotrowski, Klemens	20
Pistoli, Ciril	16
Podlipalin, Yu. D.	99
Podzorov, N. V.	52
Pogodina, V. V.	60
Pohl, H.	116
Pokshishevskiy, V. V.	14
Polin, V.	129
Polyanskiy, Yu. I.	58
Polychronakos, D. J.	65
Popescu, M.	96
Popescu, V. M.	23
Popiuc, Mihai	23
Popova, N. I.	109
Popovic, Bozidar	25
Popovic, Miroslav	25
Popovici, M.	29
Porizek, Radoslav	90
Posadas, J.	47, 48
Povarova, K. B.	104
Povzner, A. Ya.	121
Pozderie, Gh.	24
Pozhela, Yu. K.	86
Pozin, N. V.	85
Preobrazhenskiy, V. S.	13
Pretzmann, G.	68
Prichert, M. F.	13
Prix, H.	53
Prokazin, E. P.	125
Prokhorov, Yu. V.	128
Prokof'yeva, L.	7
Protopopov, V. V.	51
Protozanov, A.	4
Protsenko, V.	12
Przybyl, Eugeniusz	95
Pshezetskiy, V. S.	99
Puchkov, V. F.	54
Puczek, Ludwik	22
Pugina, L. I.	109
Pukhnachev, V. V.	129, 130
Pul'tsin	108
Pundak, Nachum	37
Pushkin, Veniamin Noyevich	133
Putsillo, M. V.	57
Pyatigorskiy, A.	8

- Q -

Quinchon, Jean 75

- R -

Rabotnov, N. S. 127
 Radda, A. 68
 Rahteenko, I. N. 51
 Raketla, K. T. J. 38
 Rakitskiy, B. 8
 Ramishvili, G. S. 54
 Ramsteiner, R. 125
 Rangelov, K. N. 51
 Raue, J. 93
 Rauner, Yu. L. 51
 Raymond, Victor 63
 Razumovskiy, A. N. 99
 Rebolia, Livio 94
 Red'ko, G. I. 51
 Reichelt, H. 17
 Rempel, G. G. 129
 Repshas, K. A. 86
 Retegan, G. 28
 Rethy, Istvan 66
 Reznikov, B. N. 130
 Riecke, W. D. 132
 Ringel, J. 65
 Riumina, E. N. 57
 Rivkin, S. S. 99
 Rochet, Waldek 30
 Roch-Ramel, F. 72
 Rode, A. A. 52
 Rodenhauser, H. 116
 Rogachevskiy, A. 4
 Rojas, Ariel 45
 Rolland, Pierre 34
 Romanov, A. A. 51
 Romanov, N. S. 57
 Ropelewski, Andrzej 22
 Rosel 10
 Rosler, E. 101
 Rosler, U. 101
 Rossanda, Rossana 32
 Rossolimo, L. L. 14
 Rostovtsev, S. T. 106
 Rothbauer, Milos 89
 Rottgardt, K. N. J. 93
 Roux, G. 112
 Rowinski, Mieczyslaw 28
 Roy, J. F. 49

Rozanov, A. G. 82
 Rozen, M. 24
 Rozov, N. M. 52
 Rubanovich, I. M. 97
 Rubenchik, B. L. 59
 Rubin, A. A. 50
 Rubtsov, N. A. 130
 Ruder, G. 87, 93
 Rudnev, K. 2
 Ruhenstroth-Bauer, Gerhard 67
 Ruhle, M. 92
 Rumako 108
 Rummyantsev, A. 4
 Rusey, G. 61
 Ruzhitskiy, Ye. I. 110
 Rusinov, Mitko 28
 Rusu, N. 24
 Ruth, V. 132
 Ruzek, Vladimir 90
 Ruzicka, J. 100
 Rybakov, V. 5

- S -

Sabinin, K. D. 82
 Sadowski, S. 115
 Saito, K. 117
 Sakaki, Y. 132
 Sakharov, I. Ye. 128
 Sakhnin, Arkaiy 11
 Salishcheva, Ye. P. 105
 Salvat, Juan Manuel 48
 Samarin, V. G. 49
 Samsonov, G. V. 106
 Sandmann, F. 114
 Sauer, K. H. 112
 Savin, A. V. 106
 Savina, A. V. 52
 Savitskiy, G. A. 85
 Savvkinas, A. Iu. 86
 Saxer, Ernst 27
 Schalm, L. 62
 Schar, K. 90
 Scheizel, Manfred 20
 Schikorr, G. 116
 Schiller, Hans-Juergen 93
 Schlieper, G. 19
 Schmid, P. 124
 Schmidt, Bernhard 65
 Schmidt, Joachim 19

Schmidt, Rainer	62	Shlindman, V. M.	96
Schmidt, V.	113	Shokin, S. P.	97
Schmidtmann, E.	112	Shoppee, Gerald	101
Schmitt, J.	50	Shovkun, V. Ye.	103
Schnitzler, H.	116	Shtatland, E. S.	128
Schubert, H.	17	Shtokman, V. B.	79
Schumacher, Ernst	65	Shulepov, V. A.	80
Schwider, J.	131	Shulyanskiy, G. F.	12
Seidel, G. P.	131	Shuto, E.	117
Seiler, Hellmut	132	Sibinov, Evgeni	17
Seleznev, K. P.	99	Sidan, H.	113
Seliga, Mojmir	123	Sidel'nikov	12
Sellier, K.	62	Sidorenko, M. F.	106
Semenido, Ye. G.	103	Sidorov, A.	7
Semenova, G. A.	108	Siemaszkiewicz,	
Senged, Ts.	42	Wladyslaw	103
Septier, A.	91	Siems, Werner	19
Sepulveda, Bernardo	69	Siepmann, H.	115
Sergiyneko, V.	1	Sievers, A. de	50
Serluca, F. P.	69	Signorini, Giorgio	37
Setunskaya, L. E.	79	Silant'ev, V. V.	59
Sha, Li-kung	41	Silbiger, Stevan	25
Shamblli, Peti	26	Simek, Milos	100
Sharina, Ye. G.	60	Simoni, O. J.	119
Sharov, A. G.	61	Sinisalo, Taisto	30
Shashin, V.	1	Sinitsyn, R. F.	58
Shashkin, Yu. A.	119	Sinogradov, G. A.	109
Shcheglovitov, L. A.	106	Sinyavskiy, A.	11
Shchegolev, Ye. Ya.	85, 87	Sirotn, N.	56
Shchelkin, K. I.	127	Sitkowski, Andrzej	23
Shchennikov, B. A.	119	Sklyar, P. P.	15
Shcherbedinskaya,		Skoptsov, V. I.	9
A. V.	106	Skryabin, K. I.	58
Shchukarev, S. A.	73	Skusek, Janez	20
Shekhet, N.	3	Sladkov, A. M.	74
Shekhtman, A. N.	99	Slastenko, Ye.	2
Shen, Chih-ch'uan	75	Slepyan, E. I.	125
Shepelev, Ye. Ya.	68	Slysh, V. I.	83
Shered'ko, E. Yu.	86	Smirnitskiy, Ye.	1
Shermazanyan, Ya. T.	97	Smirnov, L. E.	129
Shestoperov, G. P.	51	Smirnov, S.	32
Shevelev, A. A.	55	Smirnova, A. D.	52
Sheykin, A. Ye.	1	Smirnova, V. A.	51
Sheyndlin, A. Ye.	85	Smolezyk, H. G.	113
Shifrin, I.	7	Smolyakov, V. F.	5
Shigenori, Hayashi	132	Smolyar, I. M.	4
Shih, Yung	42	Smorodintsev, A. A.	60
Shinyayev	108	Smyslov, Yu. N.	130
Shipuk, I. Ya.	128	Sochel'nikov, V. V.	3
Shirey, V. A.	83	Sokolova, M. N.	82
Shishkina, O. V.	82	Sokolova, V. I.	129
Shizuma, Kahi	46	Solcanescu, G. E.	29

Solodilov, Yu. I.	97	Svestka, Zd.	111
Solomatina, I. I.	82	Svilenov, Dimitur	10
Solov'ed, V. D.	60	Syrkin, V.	74
Somov, M. M.	83	Szep, Andor	20
Soovik, H. A.	128	Szulewski, Romuald	28
Sopko, Bruno	89	Szulmajster, Jekisiel	64
Sork, E.	107	Szyndler-Glowacki,	
Sorokina, R.	7	Wieslaw	23
Soto, Lionel	48		
Sotskov, B. S.	85	- T -	
Spany, V.	89		
Sparrow, B. W.	101	Tabidze, G. S.	120
Spataru, A.	80	Tadahiko, Kawai	94
Spiegelberg, K.	114	Taigar, S.	29
Spinelli, Franco	102	Tairov, L.	6
Spivak, G. V.	129	Takaku, T.	125
Sprycha, Zygmunt	21	Takeda, Ichiro	104
Sredio, Gvozden	25	Talen, H. W.	76
Stade, Kurt	66	Tarakanov, G.	80
Stanciulea, L.	95, 119	Tarasov, K. G.	99
Standl, R.	115	Tarasov, V. N.	61
Stanishevskaya, Ye. M.	58	Tarjan, R.	59
Stanner, J. F.	112	Tarkiainen, Helena	62
Starik, I. Ye.	78	Tassone, Umberto	69
Starshinova, Ye. A.	83	Teiba, Mustafa	39
Stasovskaya, V.V.	109	Telenin, G. F.	126
Steffen, F.	87, 93	Tello, J. F.	72
Steigerwald, K. H.	93	Teodorescu, G.	28
Stepantsov, V.	49	Teptin, A. L.	119
Stesik, L. N.	127	Terent'yev, A. G.	119
Stocker, Julich	101	Terlo, G. Ya.	107
Stoeber, D.	68	Tevoedjre, Albert	36
Stoilov, G.	86	Thiam, Habib	38
Stohr, Karl	102	Thier, H.	115
Stricker, T.	63	Tikhov, G. A.	83
Strutsovskaya, A. L.	69	Tilgner, Damazy J.	53, 71
Strzyewski, Witold	103	Timofeyev, I. S.	89
Stumpf, O.	50	Timosheuskiy, D. F.	10
Sturm	92	Ting, Shu-shen	111
Sukharevskiy, B.	1	Ting, Yu-jung	74
Sukhomlinskiy, V.	11	Tintea, L.	24
Sukiasyan, E. R.	120	Tirado, Jose M. Ortiz	70
Sulakvelidze, G. K.	80	Tiriticco, Marizio	32
Suleymanova, T.	16	Tischer, Zd.	111
Sulkhanov, V. I.	122	Titova, T. V.	59
Sumita, M.	118	Tkhorik	87, 132
Suprun, L. A.	87, 99	Tochon, J.	101
Suptitz, P.	124	Todorov, Todor	18
Surkov, V. D.	73	Togawa, Hayato	122
Sushchuk-Slyusarenko,		Tolmazova, S. M.	60
I. I.	104	Tomasek, J.	90
Suyunshkaliyev, N.		Topchiy, S. M.	12
K. H.	126	Torochesnikov, N. S.	74
Suzyumov, Ye.	99		
Svec, Zdenek	75		

Toshio, Matsumoto	70
Toshio, Sakai	103
Tran, Van Cau	42
Tran, Xuan Truong	42
Tranzer, Jean-Pierre	63
Trautmann, Max	27
Trefny, F.	113
Tresvyatskiy, C. G.	108
Trickovic, Vidosav	25
Trifonenkov, P.	12
Trifonov, Am.	121
Triskova, Ludmila	84
Trocheris, Michel	127
Trommsdorff, V.	101
Tropin, V.	12
Tsagareyshvili, D. Sh.	128
Tsedenbal, Yu.	42
Tseng, Han-min	75
Tsepalov, V. F.	129
Tsiolkovskiy, K. E.	49
Tsitsin, A.	57
Tsunenobu, Shigematsu	117
Tsvetanski, Pavel	10
Tsvetkova, Ye. V.	129
Tsvileneva, V. A.	58
Tu, Jung-huan	84
Tugarinov, V.	87
Tulczynska, Helena	71
T'ung, Liang	100
Tunitskiy, N. N.	123
Tupikov, V. I.	99
Turgunov, A.	80
Twarowski, J.	94
Tyagunenko, V.	5
Tyapkin, N.	3
Tylkina, M. A.	104
Tyshkevich, N. I.	120

- U -

Uchiyama, I.	118
Uginchus, A. A.	52
Uhlmann, J.	114
Uklonskaya, L. I.	56
Ukolov, V. L.	126
Ulrych, Gerhard	102
Ul'yanov,	108
Ul'yanov, P. L.	121
Ul'yanovskiy, R.	11
Unterharnscheidt, F.	62
Unterlip, F. W.	117

Urman, A.	54
Ustinov, G. A.	98
Ustinovskaya, L. T.	83
Uvarov, M. A.	13

- V -

Valensi, J.	132
Valgin, V. D.	110
Val'ko, I.	7

van den Ende, L.	101
van Liempt, J. A. M.	77
van Mewis-Hockstra, W.	132
Van, Tien Dung	44
Vanek, O.	96
Varanovskiy, Ya. M.	61
Vartanyan, A. V.	97
Vasanov, Yu. A.	125
Vasilenko, L.S.	123
Vasilevskiy, N. N.	85
Vasil'yev, N.	12
Vasil'yev, P. V.	50
Vasil'yev, V.	43
Vasil'yeva, G.	8
Vaysberg, O. L.	84
Vazquez, Jose	45
Vedenov, A. A.	127
Veles'ko, Ye.	6
Velicu, N.	24
Vel'tishchev, N. F.	79
Vendrelly, Roger	63
Vendrov, S. L.	13
Vereshchagin, L. F.	105
Vereshchagin, N. K.	58
Vernov, S. N.	84
Veron, S.	130
Vidal, Jean-Emile	30, 44
Viertel, Herman	102
Vikhrov, A. I.	84
Vilenska, Esther	40
Vinh-Hung, D.	50
Vinokur, R.	3
Vinokurov, A. A.	59
Viscakas, J.	77
Vitale, Lamberto	69
Vitek, V.	80
Vizel', A. O.	73
Vladica, Gh.	24
Vladimirov, L. P.	107
Vlasov, A. V.	104

Vlasov, Ye. V.	126
Vlastovskiy, V.	55
Vnuchkov, V.	8
Vo, Quoc Tuy	42
Voelkel, U.	91
Voitanik, S. T.	106
Volarovich, M. P.	78
Volchkov, E. P.	130
Volin, P.	9
Volkov, I. D.	97
Volkov, T. F.	123
Volkova, N. M.	107
Vol'mir, A. S.	129
Vol'nov, I. I.	74
Volodikhin, V.	3
Volodina, L. A.	73
Voloshchenko, Z. L.	59
Von Dach, H.	27
von Rosen, A.	72
von Struve, G.	114
Vorob'yev, G. G.	110
Vorob'yev, Yu. V.	121
Votrubec, Ctibor	18
Voytsenya, V. S.	127
Vrabec, A.	100
Vukalovich, M. P.	128
Vvedenskiy, G. A.	119
Vvedenskiy, V. S.	106

- W -

Wahlster, M.	115
Wajda, Marian	28
Walczak, Marian	21
Walter, W.	93
Walz, A.	131
Wang, Chia-i	84
Wang, Chih-Chiang	61
Wang, Ching-pang	61
Wang, Hui ch'iuung	74
Wang, Tsung-hsun	61
Warbanov, W.	63
Warszczak, K.	21
Wayoff, M.	62
Weibel, J. P.	50
Weidauer, R.	17
Weigand, H.	114
Weizel, W.	92
Wencke, Heinrich	
Emil	102
Werner, Helmut	122
Westerberg, C. F. H.	103
Weyand, H.	76

Wiethaup, H.	66
Willot, H.	36
Winter, Horst	17
Wissum, E.	100
Wittenhagen, G.	65, 66
Woelk, H. U.	76
Wojas, Jozef	95
Wu, Hsu-ch'in	75
Wuhrman, K.	113
Wyczasany, Zbigniew	28

- Y -

Yagodin, V. P.	87
Yakhot, O. O.	16
Yakobson, K. K.	96
Yakovchuk, N.	2
Yakubov, I. T.	128
Yampol'skiy, B. Ya.	107
Yampol'skiy, S.	2
Yang, Chen-sheng	53
Yang, Huan-hsing	75
Yankelevich, B. M.	121
Yankov, Nedelcho	18
Yantovskiy, Ye. I.	126
Yaroshek, A. D.	105
Yefimenko, Yu. M.	105
Yefimov, A.	6
Yefremov, Ye.	49
Yeh, Ta-k'eng	75
Yelashov, Yu. G.	56
Yelyuten, V.	15
Yemel'yanov, M. D.	68
Yeremenko, Yu. G.	15
Yevskov, I.	7
Yevteyev, S. A.	13
Yevtushok, T. M.	106
Yezid, Bamba Ould	35
Yin, Ta	42
Yonke, Jean-Baptiste	36
Yoshimura, Fujio	70
Yoshimura, T.	70
Yuganov, Ye. M.	50
Yun'kov, A. A.	126
Yun'kov, Ya. A.	126
Yurchenko, A. G.	109

Zagavura, G. Ya.	105
Zagresin, D. D.	80
Zagreyev, V. V.	52
Zagryazkin, N. N.	99
Zahn, G.	66
Zakharov, Ye. K.	106
Zakharova, O. A.	57
Zaki, Salah	40
Zakolodyazhnyi, V. P.	49
Zaletayev, V. S.	59
Zambon, G.	74
Zarelua, A. V.	120
Zaslavskiy, B. I.	86
Zege, E. P.	126
Zemlyanitskiy, L. T.	53
Zenin, V. N.	123, 129
Zennstrom, P. O.	33
Zernova, V. V.	82
Zhabotinskiy, M. Ye.	89
Zhabreyev, A.	43
Zharkov, V. N.	83
Zhimerin, D.	6
Zhivkov, Zh.	17
Zhogolev, Ye. A.	88
Zhordania, I. F.	54
Zhtanovich, E. G.	80
Zhukov, K.	4
Zhukova, T. P.	69
Zhulev, Yu. G.	125
Ziecik, Marian	71
Ziemba, Zenon	22
Zlatnikova, J.	115
Zlotnikov, G. G.	120
Zolotov, B.	1
Zore-Armanda, Mira	34
Zotov, Yu.	5
Zozulya, N. V.	129
Zubelewicz, Michal	21
Zuchkowski, Ryszard	95
Zuchowski, A.	94
Zygmunt, Kuzma	94

UNCLASSIFIED
Central Intelligence Agency



Washington, D.C. 20505

7 September 2004

Ms. Roberta Schoen
Deputy Director for Operations
Defense Technical Information Center
7725 John J. Kingman Road
Suite 0944
Ft. Belvoir, VA 22060

Dear Ms. Schoen:

In February of this year, DTIC provided the CIA Declassification Center with a referral list of CIA documents held in the DTIC library. This referral was a follow on to the list of National Intelligence Surveys provided earlier in the year.

We have completed a declassification review of the "Non-NIS" referral list and include the results of that review as Enclosure 1. Of the 220 documents identified in our declassification database, only three are classified. These three are in the Release in Part category and may be released to the public once specified portions of the documents are removed. Sanitization instructions for these documents are included with Enclosure 1.

In addition to the documents addressed in Enclosure 1, 14 other documents were unable to be identified. DTIC then provided the CDC with hard copies of these documents in April 2004 for declassification review. The results of this review are provided as Enclosure 2.

We at CIA greatly appreciate your cooperation in this matter. Should you have any questions concerning this letter and for coordination of any further developments, please contact Donald Black of this office at (703) 613-1415.

Sincerely,

A handwritten signature in cursive script, appearing to read "Sergio N. Alcivar".

Sergio N. Alcivar
Chief, CIA Declassification Center,
Declassification Review and Referral
Branch

Enclosures:

1. Declassification Review of CIA Documents at DTIC (with sanitization instructions for 3 documents)
2. Declassification Status of CIA Documents (hard copy) Referred by DTIC (with review processing sheets for each document)

UNCLASSIFIED



Processing of OGA-Held CIA Documents

The following CIA documents located at DTIC were reviewed by CIA and declassification guidance has been provided.

OGA Doc ID	Job Num	Box	Fldr	Doc	Doc ID	Document Title	Pub Date	Pages	Decision	Proc Date
AD0463342	78-03109A	55	1	2	88	Consolidated Translation Survey For April 1965	4/1/1965	190	Approved For Release	3/25/2004
AD0465168	78-03109A	55	1	3	89	Consolidated Translation Survey For May 1965	5/1/1965	245	Approved For Release	3/25/2004
AD0467068	78-03109A	55	1	4	90	Consolidated Translation Survey For June 1965	6/1/1965	221	Approved For Release	3/25/2004
AD0468849	78-03109A	55	1	5	91	Consolidated Translation Survey For July 1965	7/1/1965	218	Approved For Release	3/25/2004
AD0471155	78-03109A	55	1	6	92	Consolidated Translation Survey For August 1965	8/1/1965	236	Approved For Release	3/25/2004
AD0473500	78-03109A	55	1	7	93	Consolidated Translation Survey For September 1965	9/1/1965	221	Approved For Release	3/25/2004
AD0474384	78-03109A	55	1	8	94	Consolidated Translation Survey For October 1965	10/1/1965	181	Approved For Release	3/25/2004
AD0475860	78-03109A	55	1	9	95	Consolidated Translation Survey For November 1965	11/1/1965	305	Approved For Release	3/25/2004
AD0477388	78-03109A	56	1	1	96	Consolidated Translation Survey For December 1965	12/1/1965	181	Approved For Release	3/25/2004
AD0478471	78-03109A	56	1	2	97	Consolidated Translation Survey For January 1966	1/1/1966	198	Approved For Release	3/25/2004
AD0479675	78-03109A	56	1	3	98	Consolidated Translation Survey For February 1966	2/1/1966	354	Approved For Release	3/25/2004
AD0481681	78-03109A	56	1	4	99	Consolidated Translation Survey For March 1966	3/1/1966	237	Approved For Release	3/25/2004
AD0334379	78-03117A	191	1	37	4255	Status And Activities Of Prominent Scientists In Communist China In 1962	1/29/1963	53	Approved For Release	3/29/2004
AD0333974	78-03117A	190	1	35	4212	Scientific Information Report Outer Mongolia (1)	1/17/1963	27	Approved For Release	3/29/2004
AD0335202	78-03117A	195	1	13	4394	Scientific Information Report Outer Mongolia (2)	3/13/1963	27	Approved For Release	3/25/2004
AD0332657	78-03117A	183	1	13	3924	Scientific Information Report Biology And Medicine (22)	10/12/1962	76	Approved For Release	3/29/2004
AD0333147	78-03117A	185	1	30	4020	Scientific Information Report Biology And Medicine (23)	11/16/1962	90	Approved For Release	3/29/2004
AD0333427	78-03117A	188	1	13	4112	Scientific Information Report Biology And Medicine (24)	12/13/1962	84	Approved For Release	3/29/2004
AD0334160	78-03117A	190	1	10	4187	Scientific Information Report Biology And Medicine (25)	1/10/1963	69	Approved For Release	3/29/2004
AD0334612	78-03117A	193	1	10	4310	Scientific Information Report Biology And Medicine (26)	2/20/1963	112	Approved For Release	3/29/2004
AD0335309	78-03117A	195	1	32	4413	Scientific Information Report Biology And Medicine (27)	3/20/1963	110	Approved For Release	3/29/2004
AD0336242	78-03117A	198	1	16	4509	Scientific Information Report Biology And Medicine (28)	4/12/1963	81	Approved For Release	3/29/2004
AD0332575	78-03117A	184	1	6	3957	Scientific Information Report Chemistry And Metallurgy (22)	10/23/1962	47	Approved For Release	3/29/2004
AD0333164	78-03117A	187	1	2	4061	Scientific Information Report Chemistry And Metallurgy (23)	11/28/1962	65	Approved For Release	3/25/2004
AD0333857	78-03117A	189	1	22	4160	Scientific Information Report Chemistry And Metallurgy (24)	1/2/1963	57	Approved For Release	3/29/2004
AD0334310	78-03117A	191	1	20	4238	Scientific Information Report Chemistry And Metallurgy (25)	1/28/1963	52	Approved For Release	3/29/2004